TOSHIBA

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SERVICE MANUAL

COLOUR TELEVISION

C8SS Chassis

43PJ93B, 43PJ93G

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CHAPTER 1 GENERAL ADJUSTMENTS

SAFETY INSTRUCTIONS

WARNING: BEFORE SERVICING THIS CHASSIS, READ THE "X-RAY RADIATION PRECAUTION", "SAFETY PRECAUTION" AND "PRODUCT SAFETY NOTICE" INSTRUCTIONS BELOW.

X-RAY RADIATION PRECAUTION

1. Excessive high voltage can produce potentially hazardous X-RAY RADIATION. To avoid such hazards, the high voltage must not be above the specified limit. The nominal value of the high voltage of this receiver is (A) kV at zero beam current (minimum brightness) under a (C) V AC power source. The high voltage must not, under any circumstances, exceed (B) kV.

   Refer to table-1 for high voltage (A), (B) & AC voltage (C). (See SETTING & ADJUSTING DATA on page 24)

   Each time a receiver requires servicing, the high voltage should be checked following the HIGH VOLTAGE CHECK procedure in this manual. It is recommended that the reading of the high voltage be recorded as a part of the service record. It is important to use an accurate and reliable high voltage meter.
2. The only source of X-RAY RADIATION in this TV receiver is the picture tube. For continued X-RAY RADIATION protection, the replacement tube must be exactly the same type tube as specified in the parts list.
3. Some part in this receiver have special safety-related characteristics for X-RAY RADIATION protection. For continued safety, parts replacement should be undertaken only after referring to the PRODUCT SAFETY NOTICE below.

SAFETY PRECAUTION

WARNING : Service should not be attempted by anyone unfamiliar with the necessary precautions on this receiver. The following are the necessary precautions to be observed before servicing this chassis.

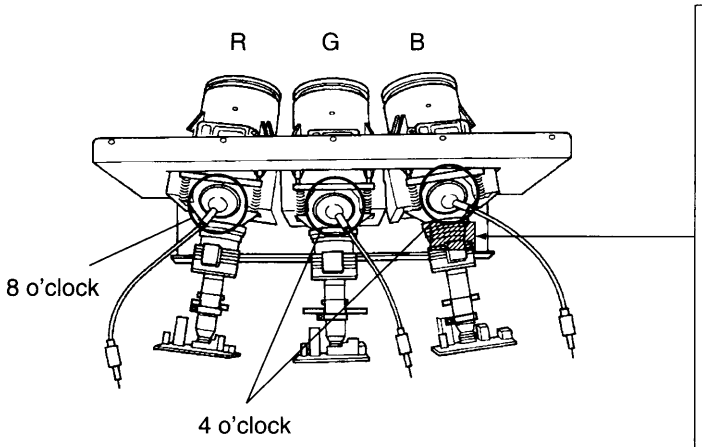
1. An isolation transformer should be connected in the power line between the receiver and the AC line before any service is performed on the receiver.
2. Always discharge the picture tube anode to the CRT conductive coating before handling the picture tube. The picture tube is highly evacuated and if broken, glass fragments will be violently expelled. Use shatter proof goggles and keep picture tube away from the unprotected body while handling.
3. When replacing a chassis in the cabinet, always be certain that all the protective devices are put back in place, such as; non-metallic control knobs, insulating covers, shields, isolation resistor-capacitor network etc.

PRODUCT SAFETY NOTICE

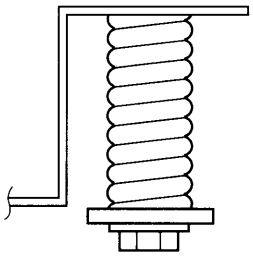
Many electrical and mechanical parts in this chassis have special safety-related characteristics. These characteristics are often passed unnoticed by a visual inspection and the protection afforded by them cannot necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in this manual and its supplements; electrical components having such features are identified by the international hazard symbols on the schematic diagram and the parts list.
Before replacing any of these components, read the parts list in this manual carefully. The use of substitute replacement parts which do not have the same safety characteristics as specified in the parts list may create shock, fire, X-ray radiation or other hazards.

CRT ASSEMBLY REPLACEMENT AND MOUNTING

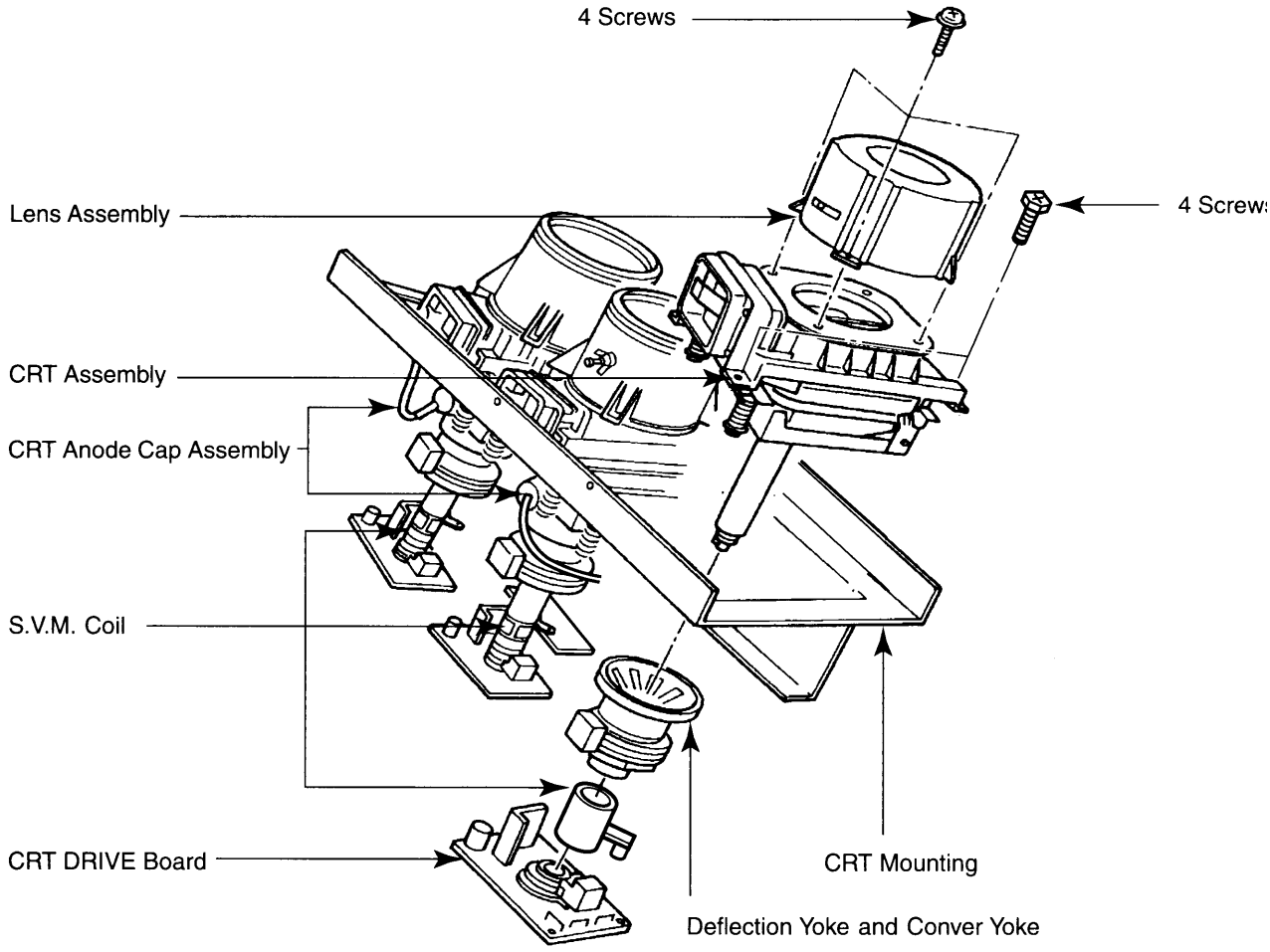
CAUTION : DO NOT LOOSEN THE HEX HEAD BOLTS WITH SPRINGS (12 PCS), BECAUSE THOSE ARE FOR SEALING OF CRT COOLANT.



Attention Serviceman



The Hex Head Bolts with Springs. (see sketch) used on CRT assembly, are "NOT" Adjustment Screws DO NOT LOOSEN-FLUID LEAKAGE WILL OCCUR.



Lens and Neck Components View

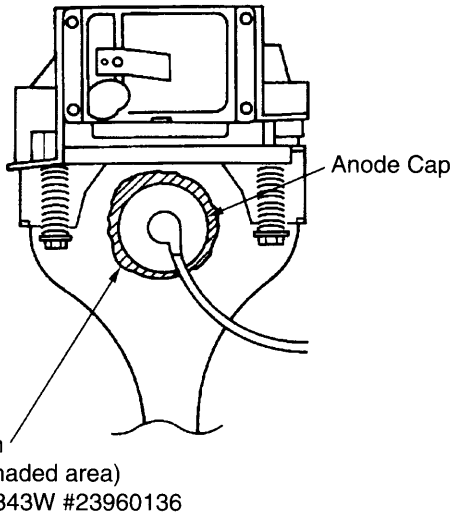
TO REMOVE CRT (Same procedure for R, G, B)

1. Remove CRT DRIVE Board, S. V. M. COIL and DEF. YOKE from CRT.
2. Remove Lens Assembly.
3. Detach CRT Anode Cap from CRT.
4. Remove CRT Assembly from CRT Mounting.

CRT REPLACEMENT (Same procedure for R, G, B)
Reverse the removal procedures except the followings.

1. Anode Cable should be replaced with new one. See "SERVICING PRECAUTIONS" shown below.
2. Install silicon (T461B) to the CRT, replace the Anode cable and put enough silicon again on around the Anode Cap as illustrated.

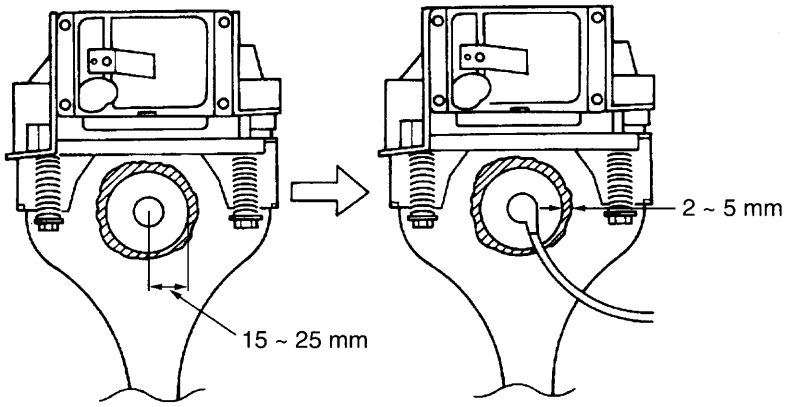
CAUTION: Align the Anode cable as illustrated on page 4.



ADJUSTING PROCEDURE IN REPLACING CRT

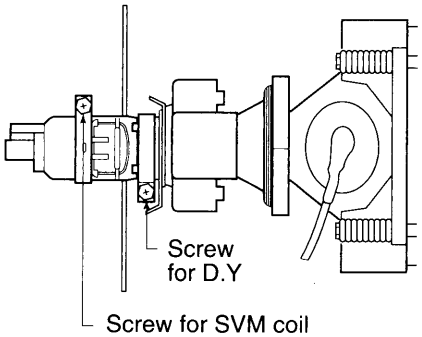
1. R.G.B. CUTOFF (SCREEN VR) ADJUSTMENT (page 6.)
2. R.G.B. FOCUS ADJUSTMENT (page 6.)
3. PICTURE TILT ADJUSTMENT (page 7.)
4. USER CONVERGENCE CENTER CHECK (Refer to owner's manual.)
5. CENTERING ADJUSTMENT (page 7.)
6. CONVERGENCE ADJUSTMENT (page 17.)
7. WHITE BALANCE ADJUSTMENT (page 14.)

Adjustments are complete.



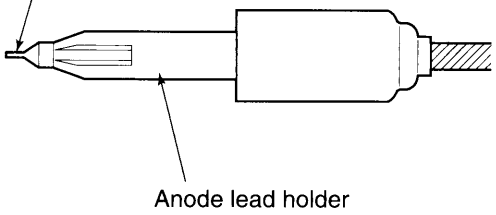
SERVICING PRECAUTIONS

■ Do not use a magnetized screw driver for screws of Deflection Yoke and Velocity Modulation Coil to avoid magnetization of electron gun. Magnetization of electron gun will degrade basic function and result in unbalance of right and left shift of user static convergence, and result in no variable quantity.



■ When replacing the anode cap assembly (CRT) or anode lead assembly (F.B.T.), remove the anode lead holder from old one and attach the holder again to new anode lead.

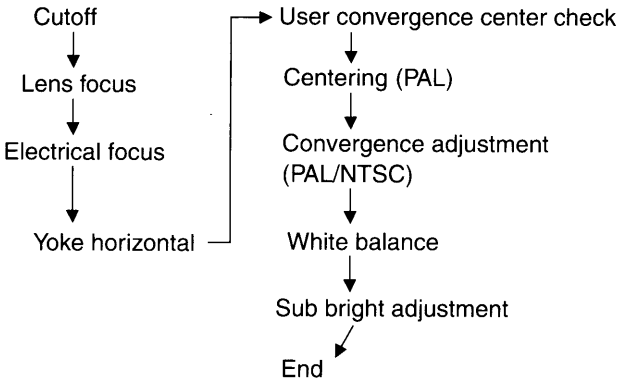
■ Check the point of anode lead in a straight line, if it is winding, please revise it.



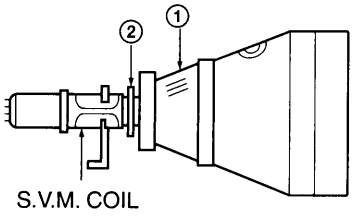
WARNING: BEFORE SERVICING THIS CHASSIS, READ THE "X-RAY RADIATION PRECAUTION", "SAFETY PRECAUTION" AND "PRODUCT SAFETY NOTICE" ON PAGE 3 OF THIS MANUAL.

PICTURE TUBE COMPONENTS ADJUSTMENT

ADJUSTING PROCEDURE IN REPLACING CRT



DESCRIPTION OF NECK COMPONENTS



① Deflection yoke and convergence yoke.
The position on the neck is required most front (CRT funnel side) and the screw is fastened after rotating yoke adjusting picture tilt.

② Centering magnet
After adjusting picture tilt, picture position is finally fixed by this magnet.
In order to get maximum margin of user convergence control for center of screen, this magnet have to be used for center convergence adjustment.

PREPARATION
Operate the receiver for at least 5 minutes.

R, G, B CUTOFF (SCREEN VR) ADJUSTMENT

1. Adjust before replace the screen assembly.
2. Set user control to reset position.
   (CONTRAST → Max
   BRIGHTNESS, COLOR, TINT → Center.)
3. Call up the adjustment mode display, then select the item RCUT.
4. Adjust the data of items **RCUT**, **GCUT**, and **BCUT** to "40H".
5. Press the -/-- button on Remote. (Y-MUTE : ON)
6. Gradually rotate R, G and B screen volume of FOCUS PAC clockwise or counterclockwise until the raster appears slightly on the CRT through the each lens, and leave them.
   (Lookin to the lens in order to check the raster.)
7. Press the -/-- button on Remote. (Return to Normal Picture)

RGB FOCUS ADJUSTMENT

1. Call-up the adjustment mode (see page 10)
2. Press ⊖ button on the remote controller in order to display the internally-generated cross-hatch (See TEST SIGNAL SELECTION on page 11.)
3. Expose only RED by covering the GREEN and BLUE lenses with caps.
4. Loosen the RED lens fixing screws (refer to Fig. a), and adjust the RED lens focus to obtain the sharpest point while observing the middle and peripheral sections of the screen.

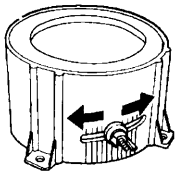


Fig. a

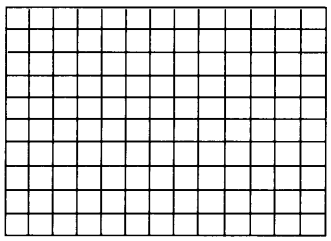
5. Use the focus VR of "R" of the focus pack in order to adjust the electric focus in the middle and peripheral sections of the screen to its sharpest level.
6. Check the RED focus of the whole screen and if necessary repeat steps 4 and 5.
7. Fix the RED lens by tightening its fixing screws.
8. Expose only GREEN by covering the RED and BLUE lenses with caps.
9. Display the internally-generated cross-hatch signal.
10. Adjust the GREEN lens focus on the left border of the screen to its sharpest level, then check the focus on the right border, and if it is at its sharpest level, fix it in that position by tightening the lens screws.

    (1) If the horizontal line toward the right border is red-flared, turn the lens screw slightly right in order to balance it with the left border. (After adjustment, the left border tends to be slightly green-flared, and the right border tends to be slightly red-flared.)
    (2) If the horizontal line toward the right border is green-flared, turn the lens screw slightly left in order to balance it with the left border. (After adjustment, the left border tends to be slightly red-flared, and the right border tends to be slightly green-flared.)

Note: The aim of the above-described adjustment procedure for the Green lens focus is to obtain the best lens focus after 2 - 3 hours of warming up taking into account the focus drift; it applies if the warming up time before the adjustment is less than 30 minutes. (The horizontal line in the screen middle section tends to be slightly red-flared.)

In case of warming up of more than 2 hours under a condition that the large anode current is running through the projection tube so that for example the all-white pattern appears, adjust to obtain the sharpest focus while observing the whole screen like in the RED case.

11. Press ⊖ button on the remote controller in order to display the internally-generated black cross-hatch. (See TEST SIGNAL SELECTION on page 11.)



12. Use the focus VR of "G" of the focus pack in order to adjust the electric focus in the middle section of the screen to its sharpest level.

Note: Normally the most clearly visible point of the scanning line is the sharpest point of the Green focus, however as the characteristics vary depending on the projection tube, the sharpest focus points of the vertical and horizontal lines may not match each other, thus when you turn the focus VR, if the picture tends to be tremendously unstable (rolls horizontally or vertically), adjust the balance of the vertical and horizontal lines to its best position.

13. Check the GREEN focus of the whole screen and if necessary repeat steps 10 and 11.
14. Fix the GREEN lens by tightening up its fixing screws.
15. Expose only BLUE by covering the RED and GREEN lenses with caps.
16. Press ⊖ button on the remote controller in order to display the internally-generated cross-hatch (See TEST SIGNAL SELECTION on page 11.)
17. Loosen the BLUE lens fixing screws (refer to Fig. a), and adjust the BLUE lens focus while observing the middle and peripheral screen sections.
18. Press ⊖ button on the remote controller in order to display the internally-generated black cross-hatch (See TEST SIGNAL SELECTION on page 11.)
19. Use the focus VR of "B" of the focus pack in order to adjust the focus in the middle section of the screen to its sharpest level.
    (The point of the Blue focus becomes sharpest when the brightness level of BLUE is lowest, the cross-hatch is clearly visible.)

Note: Keep in mind that only the BLUE electric focus is adjusted with the black cross-hatch.

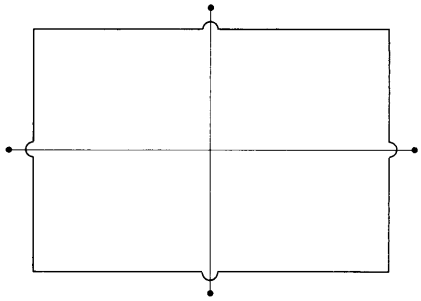
20. Check the BLUE focus of the whole screen and if necessary repeat steps 17 and 19.
21. Fix the BLUE lens by tightening its fixing screws.

TILT ADJUSTMENT

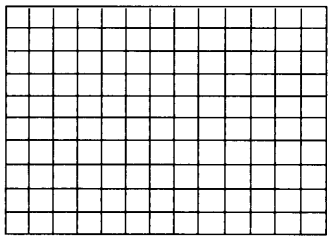
Rotate R, G, B deflection yoke so that picture becomes horizon, then fasten screw.

CENTERING ADJUSTMENT

1. Stretch a thread between two center slots of screen edge (top and bottom, left and right).



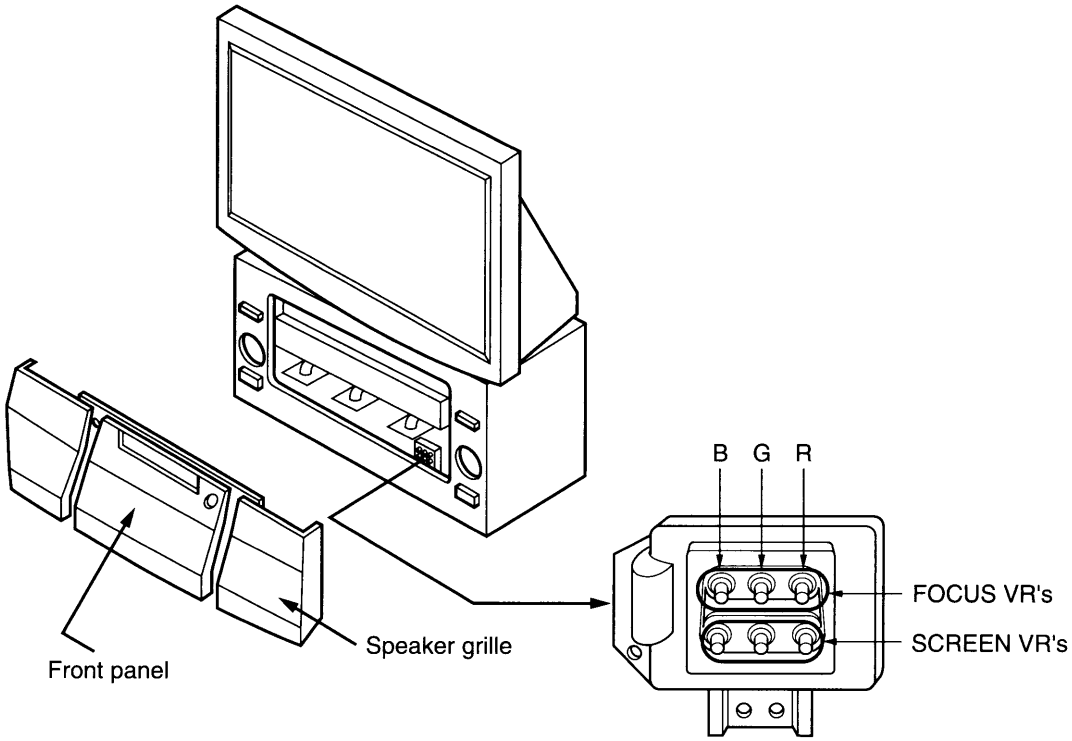
2. Select the adjustment mode. (See page 10.)
3. Press TV/VIDEO button on the Remote Control to display the black cross-hatch.



4. Adjust G centering magnet so that the cross-hatch pattern center comes to screen center.
5. Perform HEIGHT adjustment . (See page 14.)
6. Perform VERT. LINEARITY adjustment. (See page 14.)
7. Perform WIDTH adjustment. (See page 14.)
8. Check whole quality of green line.
9. Adjust R, B centering magnet so that the cross-hatch pattern center comes to screen center.

LOCATION OF SCREEN AND FOCUS VR'S

To remove the Speaker grille and Front panel.



REPLACEMENT OF HIGH VOLTAGE CABLE

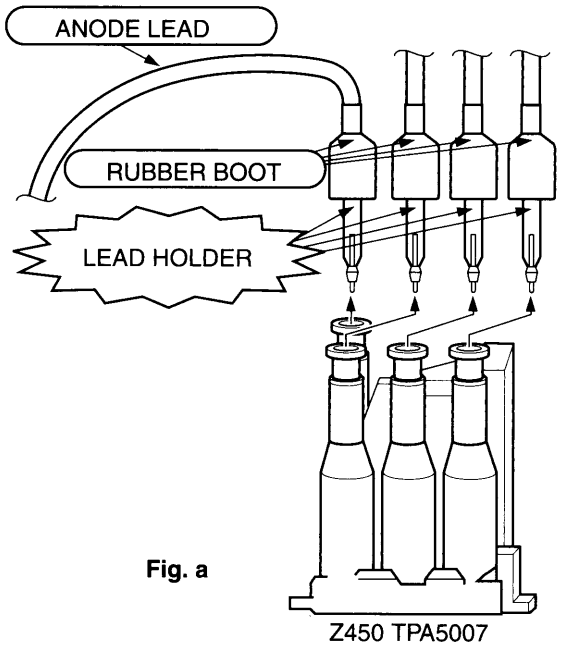


Fig. a

1. When replacing Anode Lead or Anode Cap with new one, remove Lead Holder from old lead as shown in figure below, and put it on new lead. Do not throw away Lead Holder.

NOTE : THE LEAD HOLDER IS ATTACHED TO TPA5007 (Z450), BUT IS NOT ATTACHED TO ANODE LEAD AND ANODE CAP. RUBBER BOOT IS ATTACHED TO ANODE LEAD AND ANODE CAP.

2. Detaching Lead Holder

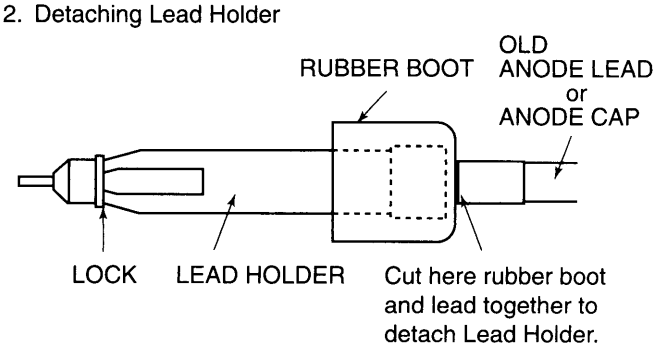


Fig. b

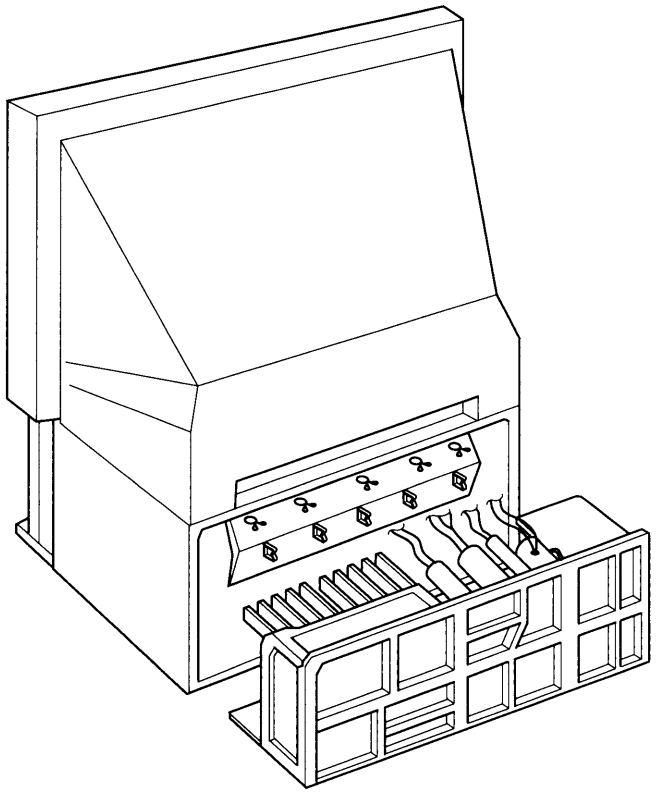
WARNING: BEFORE SERVICING THIS CHASSIS, READ THE "X-RAY RADIATION PRECAUTION", "SAFETY PRECAUTION" AND "PRODUCT SAFETY NOTICE" ON PAGE 3 OF THIS MANUAL.

SERVICE POSITION

In order to assure the performance, processed wires shall be replaced after the repair work.
Work procedures are as follows:

1. Remove the back board.
2. Remove lead wires.
3. Draw out the chassis.
4. Rest the chassis against the back cabinet, chassis as shown bellow.

After repair work finished, replace it in the opposite procedure.



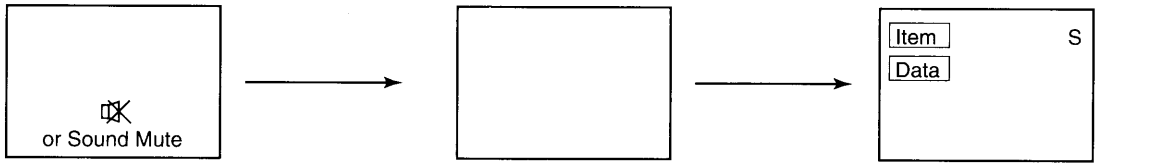
SERVICE MODE

1. ENTERING TO SERVICE MODE

1) Press 🔇 button once on Remote Control.

2) Press 🔇 button again to keep pressing.

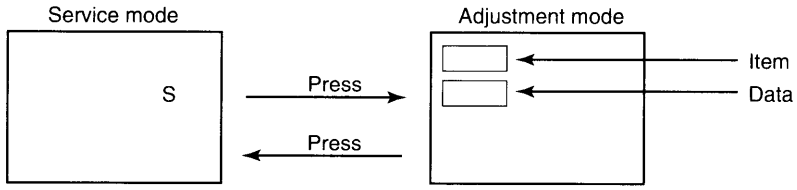
3) While pressing the 🔇 button, press MENU button on TV set.



(Service mode display)

2. DISPLAYING THE ADJUSTMENT MENU

1) Press MENU button on TV.



3. KEY FUNCTION IN THE SERVICE MODE

The following key entry during display of adjustment menu provides special functions.

Screen adjustment mode ON/OFF:	-/-- button (on Remote)
Test signal selection :	⊖ button (on Remote)
Selection of the adjustment items :	Channel ▲/▼ (on TV or Remote)
Change of the data value :	Volume ◿ +/– (on TV or Remote)
Adjustment menu mode ON/OFF :	MENU button (on TV)
Initialization of the memory (QA02) :	CALL + Channel button on TV (▲)
Reset the count of operating protect circuit to "00":	CALL + Channel button on TV (▼)
"RCUT" selection :	1 button
"GCUT" selection :	2 button
"BCUT" selection :	3 button
"SCNT" (or "CNTX") selection :	4 button
"COLC" (or "SCOL") selection :	5 button– – – – Color thickness correction
"TNTC" selection :	6 button note: Displayed differently as shown below, de-
Convergence adj :	YELLOW button pending on the setting of the receiving color
Self diagnostic display ON/OFF :	9 button system.
	COLP (PAL)
	COLC (NTSC)
	COLS (SECAM)

CAUTION : Never try to perform initialization unless you have changed the memory IC.

4. SELECTING THE ADJUSTING ITEMS

1) Every pressing of CHANNEL ▲ button in the service mode changes the adjustment items in the order of table-2. (▼ button for reverse order)

Refer to table-2 for preset data of adjustment mode. (See SETTING & ADJUSTING DATA on page 24)

5. ADJUSTING THE DATA

1) Pressing of VOLUME +/– button will change the value of data in the range from 00H to FFH. The variable range depends on the adjusting item.

6. EXIT FROM SERVICE MODE

1) Pressing POWER button to turn off the TV once.

■ INITIALIZATION OF MEMORY DATA OF QA02

After replacing QA02, the following initialization is required.

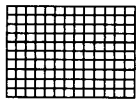
1. Enter the service mode, then select any register item.
2. Press and hold the CALL button on the Remote, then press the CHANNEL ▲ button on the TV. The initialization of QA02 has been complated.
3. Check the picture carefully. If necessary, adjust any adjustment item above. Perform "Auto search Memory" on the owner's manual.

CAUTION: Never attempt to initialize the data unless QA02 has been replaced.

7. TEST SIGNAL SELECTION

1) Every pressing of ⊖ button on the Remote Control changes the built-in test patterns on screen as described below in SERVICE MODE.

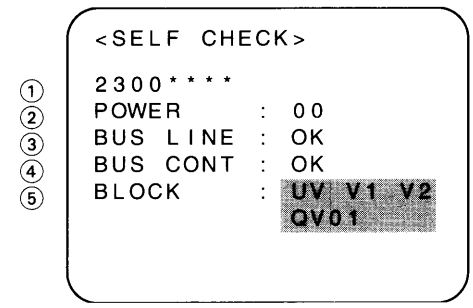
Signal off → NTSC signals (5 patterns)
↑ PAL signals (5 patterns) ←

Signals	Picture
• Red raster • Green raster • Blue raster • All White	
• Black cross-hatch	

* The signals marked with ▦ are not usable to display in the Test signal for some model.

8. SELF DIAGNOSTIC FUNCTION

1) Press "9" button on Remote Control during display of adjustment menu in the service mode.
   The diagnosis will begin to check if interface among IC's are executed properly.
2) During diagnosis, the following displays are shown.



Indicated color of mode now selected : Green and Red
Indicated color of other modes : White

Green : Normal
Red : The microcomputer operates to provide judgement of no video signal. The red color is still indicated though the signal is input, failure may exist in input signal line including QV01.
QV01 : In case of indication green ---Normal
In case of indication red with input signal----
Failure may exist in output line including QV01.

① Part number of microcomputer (QA01)
② Operation number of protecting circuit ----"00" is normal.
When indication is other than "00", overcurrent apts to flow, and circuit parts may possibly be damaged.
③ BUS LINE CHECK ----"OK" is normal.
"SDA1-GND" ---------- SDA-GND short circuit.
"SCL1-GND" ---------- SCL-GND short circuit.
"SCL1-SDA1" ---------- SCL-SDA short circuit.
④ BUS CONT ----"OK" is normal.
When indication shows "Q○○○ NG", the device with the number may possibly be damaged.
⑤ BLOCK
UV : TV reception mode
V1 : VIDEO 1 input mode (-C01)
V2 : VIDEO 2 input mode (-C02)

NOTE: Component which controls character display on screen is QT01 (TELETEXT IC.). If this display function fails to operate due to damage in QT01, self diagnosis procedure is as follows.
(1) In case that power indicator is blinking with interval of 0.5 seconds; it means protecting circuit (Current limiter) is operating, and circuit components may possibly be damaged. Check related components.
(2) In case that power indicator is blinking with interval of 1 second; Protecting circuit does not operate, but a part of Bus line does not operate normally. Check Bus line.

* The items marked with ▒ are not usable to display in the SELF DIAGNOSTIC FUCTION for some model.

DESIGN MODE

1. ENTERING TO DESIGN MODE

1) Select the Service mode. 2) While pressing CALL button on Remote and press MENU button on TV. 3) Press MENU button on TV.

(Design mode) (Adjustment mode)

When QA02 is initialized, items "OPT0" and "OPT1" of DESIGN MODE are set to the data of the representative model of this chassis family.
Therefore, because ON-SCREEN specification remains in the state of the representative of model. This model is required to reset the data of items "OPT0" and "OPT1".

2. SELECTING THE ADJUSTING ITEMS

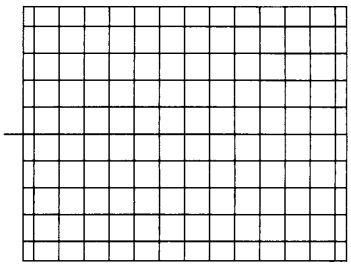
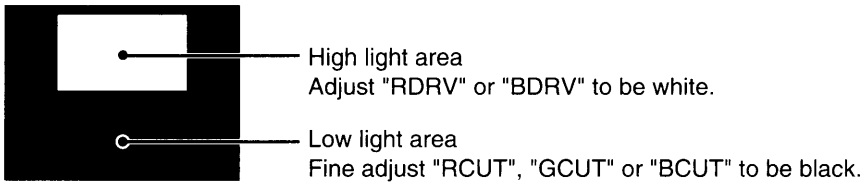
Every pressing of CHANNEL ▼ button in the design mode changes the adjustment items in the order of table-3. (▲ button for reverse order)

Refer to table-3 for data of design mode.
(See SETTING & ADJUSTING DATA on page 24)

3. ADJUSTING THE DATA

Pressing of VOLUME ▲ or ▼ button will change the value of data.

ELECTRICAL ADJUSTMENT

ITEM	ADJUSTMENT PROCEDURE
WIDTH (WID)	1. Call up the adjustment mode display, then select the item **WID**. 2. Press the VOLUME ▼ button to get the picture so the left or right edges of raster begins to lack. 3. Press the VOLUME ▲ button to advance the data by 10 steps. Note : Check the horizontal picture position is correct.
VERTICAL LINEARITY (VLIN)	1. Call up the adjustment mode display, then select the item **VLIN**. 2. Press the TV/VIDEO button on Remote until the cross-hatch pattern appears on the screen. 3. Press the VOLUME ▲ or ▼ button to obtain the picture of the best linearity 
HEIGHT (HIT)	1. Call up the adjustment mode display, then select the item **HIT**. 2. Press the VOLUME ▼ button to get the picture so the top or bottom of raster begins to lack. 3. Press the VOLUME ▲ button to advance the data by 11 steps. Note : Check the vertical picture position is correct.
WHITE BALANCE (RCUT) (GCUT) (BCUT) (RDRV) (BDRV)	Black and White pattern  1. Set user control to reset position. (CONTRAST → Max BRIGHTNESS, COLOR, TINT → Center.) 2. Call up the adjustment mode display, then select the item RCUT. 3. Adjust the data of items **RCUT**, **GCUT**, and **BCUT** to "40H". 4. Press the -/-- button on Remote. (Y-MUTE : ON) 5. Gradually rotate R, G and B screen volume of FOCUS PAC clockwise or counterclockwise until the raster appears slightly on the CRT through the each lens, and leave them. (Lookin to the lens in order to check the raster.) 6. Press the -/-- button on Remote. (Return to Normal Picture) 7. Press the ⊖ button on Remote, and select the Black and White pattern. 8. Adjust the data of items **RCUT**, **GCUT** and **BCUT** for proper white-balanced picture in low light area. 9. Adjust the data of items **RDRV** and **BDRV** for proper white-balanced picture in high light area. 10. Check the white balance in both low and high light areas. If necessary, perform again steps from 8 to 9.

Item	Name	Setting (User control)	Input signal	Measurement point	Adjustment procedure	Adjustment standard
[SCNT]	Sub-contrast	Reset 1 mode	Sub-bright signal (PAL-I signal)	Q501 (TP46B)	Adjust the amplitude from the pedestal level to the white peak.	2.7 ± 0.1 V p-p
[BRTC]	Sub-bright center	Reset 1 mode	Sub-bright signal	Screen adjustment	1) Adjust the number of collapsed black lines of sub-bright signal. 2) This adjustment shall be done after W/B [SCNT] adjustment.	4 ± 1.5 lines
[COLP]	Sub-color center PAL	Reset 1 mode	Sub-bright signal (PAL)	Q501 (TP46B)	1) Adjustment the colour bar amplitude. 2) Adjust the P-P value of the upper half.	1.25 ± 0.1 V p-p
[BELL]	BELL filter		SECAM colour bar	QQ01 (TMP01)	1) Adjust [BELL] so that the wavetorm on the synchroscope becomes flat. 2) Perform this adjustment at the white part.	100 ± 10 %
[SRY]	SECAM R-Y black level		SECAM colour bar	Q501 (TP02)	1) Adjust [SRY] so that the level of B/W signal becomes the same as the H.BLK level. 2) This adjustment shall be done after [BELL] adjustments.	0 ± 10 mV
[SBY]	SECAM R-Y black level		SECAM colour bar	Q501 (TP01)	1) Adjust [SBY] so that the level of B/W signal becomes the same as the H.BLK level. 2) The adjustment shall be done after [BELL] adjustments.	0 ± 10 mV
[COLS]	Sub-colour center SECAM	Reset 1 mode	SECAM colour bar	Q501 (TP46B)	1) Adjust the amplitude of colour bar. (Apply picture mute for this adjustment.) 2) Adjust the P-P value of the upper half.	1.95 ± 0.2 Vop
Screen adjustment	Screen	Factory screen adjsutment mode		CRT tube surface	1) Make the surrounding as dark as possible. 2) Set to the factory screen adjustment mode (Y mute, DRV. CUT= 40H) 3) Observing the CRT tube surface directly, adjust the screen VR to the point where the tube starts to be bright. 4) Perform this adjustment for each R, G and B tube.	Point where the tube starts to glow.
Focus adjustment	Focus	Reset 1 mode	RETMA (PAL-1)	Screen Adjustment	1) Repeat the electric focus and optical focus adjustments for the best position. 2) As to CRTs other than the one for the adjustment, shield them with a jig. 3) Perform this adjustment for each R, G and B tube.	
[RDRV] [BDRV]	White balance at bright part			Screen Adjustment	Adjust the colour temperature at the bright part (103cd/m^2).	8750K-0.002uv
[RCUT] [BCUT]	White balance at dark part			Screen Adjustment	Adjust the colour temperature at the dark part (17cd/m^2).	8750K-0.002uv

Item	Name	Setting (User control)	Input signal	Measurement point	Adjustment procedure	Adjustment standard
High voltage adjustment	High voltage	Reset 1 mode	Phillips pattern (PAL-I)	between T461 and Z450	Connect a high-voltage meter in between T461 and Z450, and adjust high voltage. (user adjustment standard)	30.7 ± 0.2 kV
Vertical position adjustment		Reset 1 mode	Phillips pattern (PAL-I)	Screen adjustment	1) Adjust the centering magnet so that the vertical position comes to the center of the dummy screen (cross pattern). 2) Do not change [VPOS] data.	
Horizontal position adjustment		Reset 1 mode	Phillips pattern (PAL-I)	Screen adjustment	1) Adjust the centering magnet so that the horizontal position comes to the center of the dummy screen (cross pattern). 2) Do not change [HPOS] data.	
[HIT] [VLIN]	Vertical amplitude adjustment	Reset 1 mode	Phillips pattern (PAL-I)	Screen adjustment	Adjust the vertical amplitude so that top and bottom flags disappear. (Align the vertical center of the pattern with the center mark of the mask.)	
[SHIT]	The frame of 16 : 9 adjustment	Reset 1 mode compression	Phillips pattern (PAL-I)	Screen adjustment	Adjust in the frame of 16 : 9 of the dummy screen.	
[WID]	Horizontal amplitude adjustme	Reset 1 mode	Phillips pattern (PAL-I)	Screen adjustment	Adjust the horizontal amplitude so that the left and right flags disappear.	

Unit adjustment : DIGITAL-CONVER

Item	Name	Setting (User control)	Input signal	Measurement point	Adjustment procedure	Adjustment standard
PLL frequency adjustment				Q709 emitter	1) Apply the following voltages to the respective terminals of P701. +5V to the terminals #15 and #16 +9V to the terminals #13 -9V to the terminals #14 2) By L719, adjust the frequency of the emitter Q709.	32 ± 0.1 kV

CONVERGENCE ADJUSTMENT

1. SCREEN ADJUSTMENT

The adjustment is carried out on four screens; 4 : 3 and 16 : 9 screens in both PAL and NTSC modes. When making the adjustments, feed an external signal to make an synchronization.

Note:

The convergence circuit is a circuit to eliminate screen distortion and can not make a drastic correction such as to correct entire screen size. An excessive correction may actuate the protection circuit. So a care will be necessary.

Before proceeding to the adjustment for each screen, always perform the adjustments for vertical size (HIT) and horizontal size (WID) with the main deflection data changed.

Order of the adjusting screens is PAL 4 : 3 → PAL 16 : 9 → NTSC 4 : 3 → NTSC 16 : 9.

The menu order is 1 → 2 → 3 → 1 → .... when the vertical sync is 50 Hz.

The menu order is 4 → 5 → 6 → 4 → .... when the vertical sync is 60 Hz.

1-1. Entering the Adjustment Menu

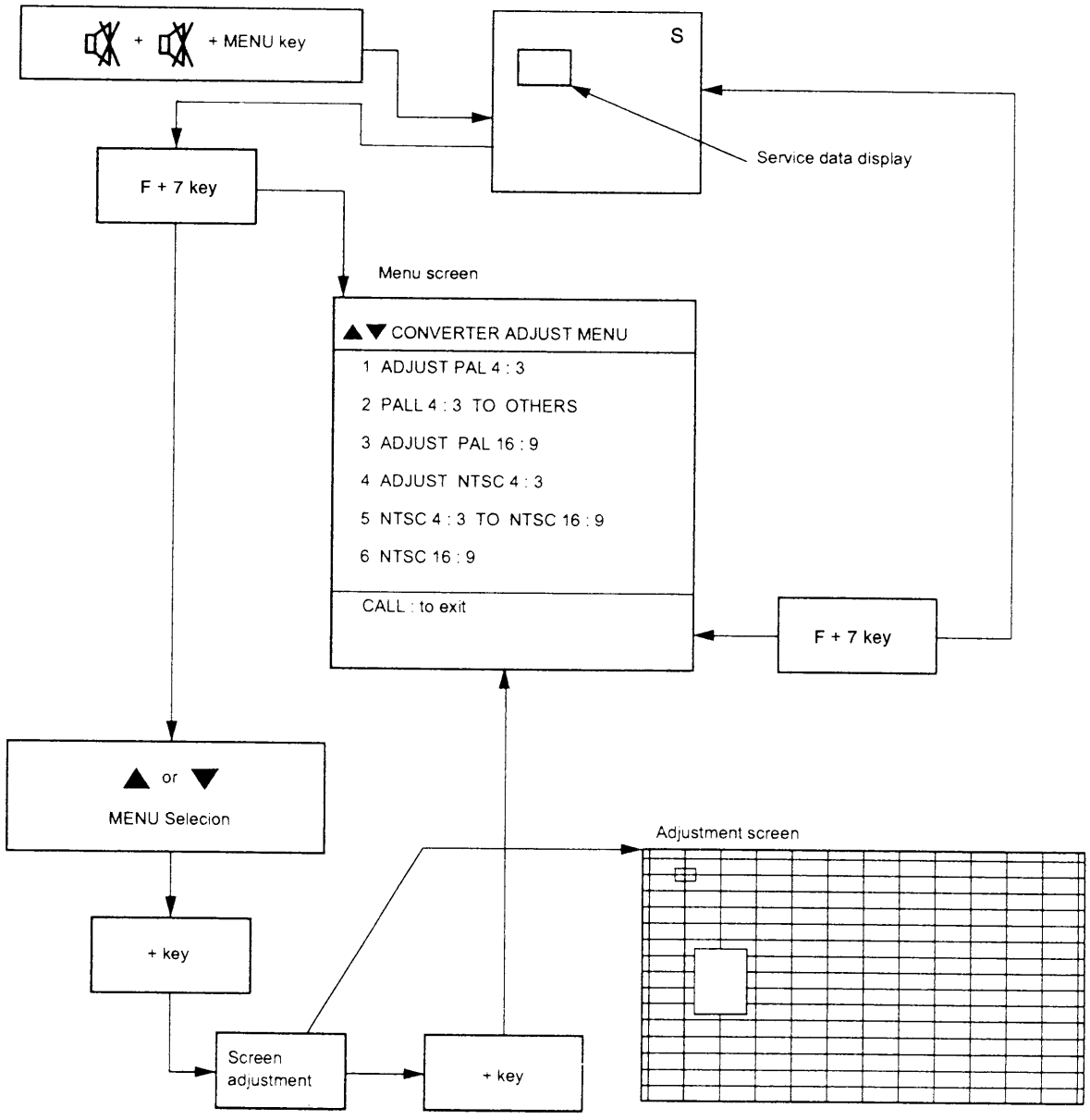
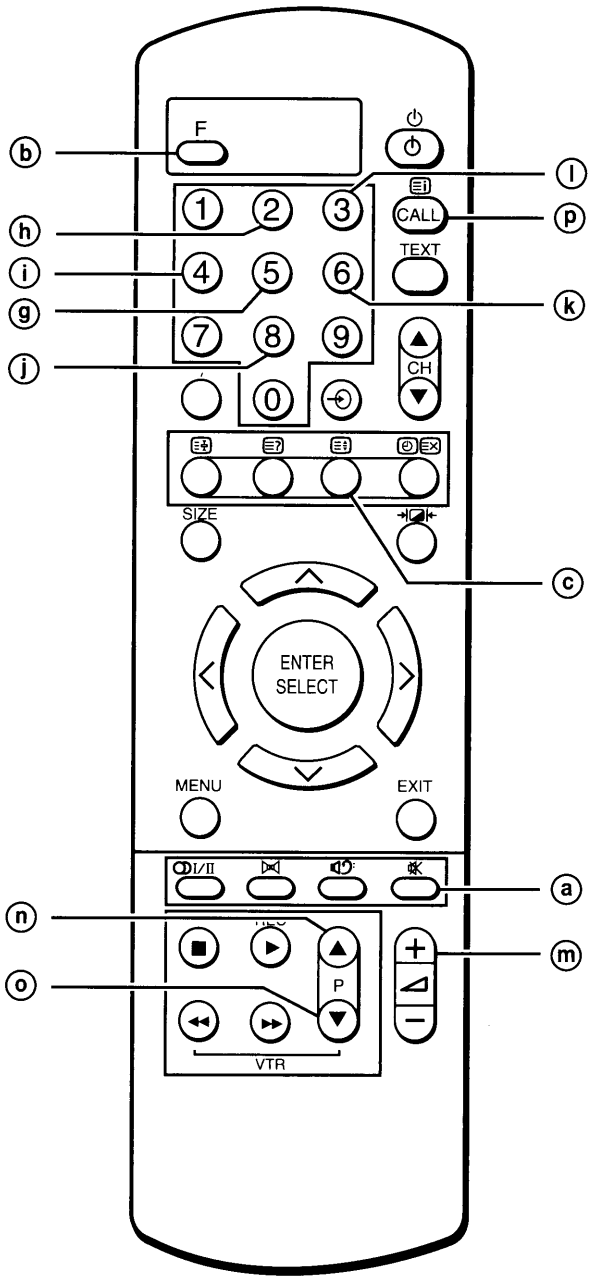


Fig. 1

1-2. Remote Control Key

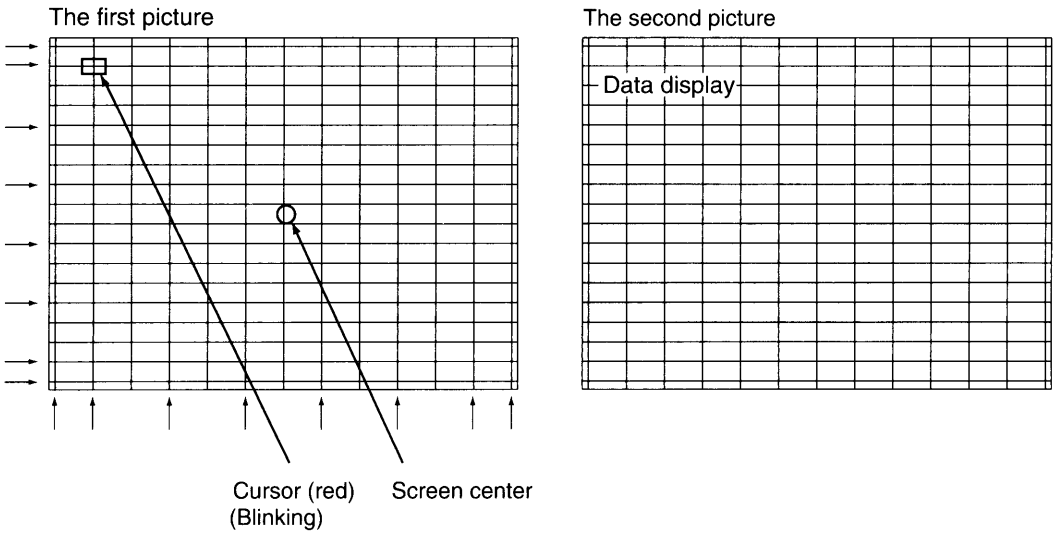


ⓐ 🔇 key ..... Push this key twice and the set console menu key to enter the service mode.
ⓑ F key ..... Push this key and yellow key to enter the convergence menu.
ⓒ Yellow or 7 key .. Convergence menu key.
ⓖ 5 key ..... Cursor shift / data change mode change-over.
ⓗ 2 key ..... Cursor up / adjusting point up.
ⓘ 4 key ..... Cursor left / adjusting point left
ⓙ 8 key ..... Cursor down / adjusting point down
ⓚ 6 key ..... Cursor right / adjusting point right
ⓛ 3 key ..... Cursor colour change (Adjusting colour selection).
ⓜ + key ..... Execution key on convergence menu.
ⓝ ▲ key ..... Up key on convergence menu.
ⓞ ▼ key ..... Down key on convergence menu.
ⓟ CALL key ..... Termination key on convergence menu.

Fig. 2

2. Picture

a) 50 Hz mode (PAL) . . . . Correcting point: Horizontal 8 × Vertical 8 (Arrow marks denote correcting point)



The first picture

Crosshatch pattern. Pattern colors are three color display. Cursor is blinking in red. When changed, condition is last memory state.

Cursor is ..... Data change mode in lighting,
Cursor shifting mode in blinking.

Display color shows the color that data change is possible.

The second picture

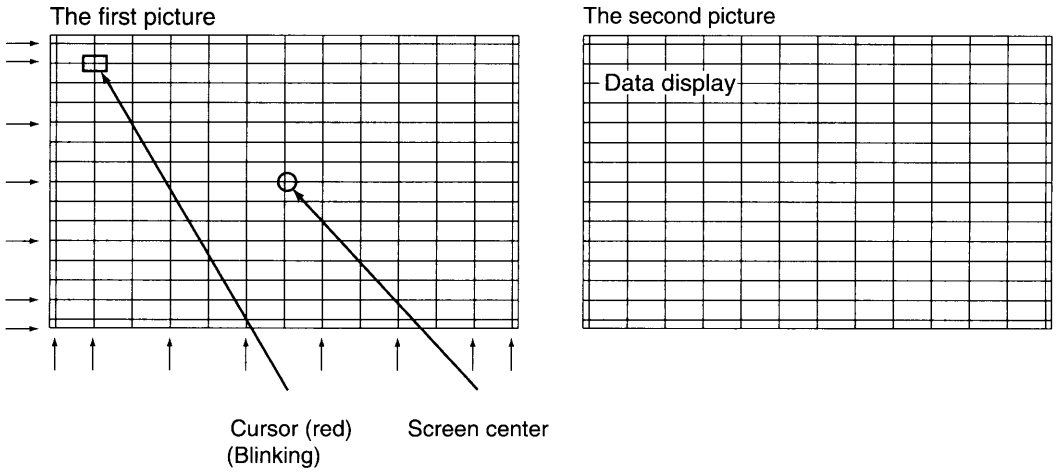
When entering from the first picture to the second picture, correcting wave of convergence is muted for one second.
During this period, the changed data is transferred from RAM Q701 to E2PROM Q713, and saved.

The second picture is indicated with data on top left of the first picture, therefore, convergence cannot be adjusted by this picture.

Caution:

- Receive suitable signal for adjustment. Centering of green picture can be done in 50 Hz mode (PAL).
- Centering of 60 Hz mode (NTSC) can be adjusted by convergence adjustment. Besides, decide the center by cross pattern of static convergence in menu, and adjust convergence from center to circumference.

b) 60 Hz mode (NTSC) . . . . Correcting point: Horizontal 8 × Vertical 7 (Arrow marks denote correcting point)



The first picture

Crosshatch pattern. Pattern colors are three color display. Cursor is blinking in red. When changed, condition is last memory state.

Cursor is ..... Data change mode in lighting,
Cursor shifting mode in blinking.

Display color shows the color that data change is possible.

The second picture

When entering from the first picture to the second picture, correcting wave of convergence is muted for one second.

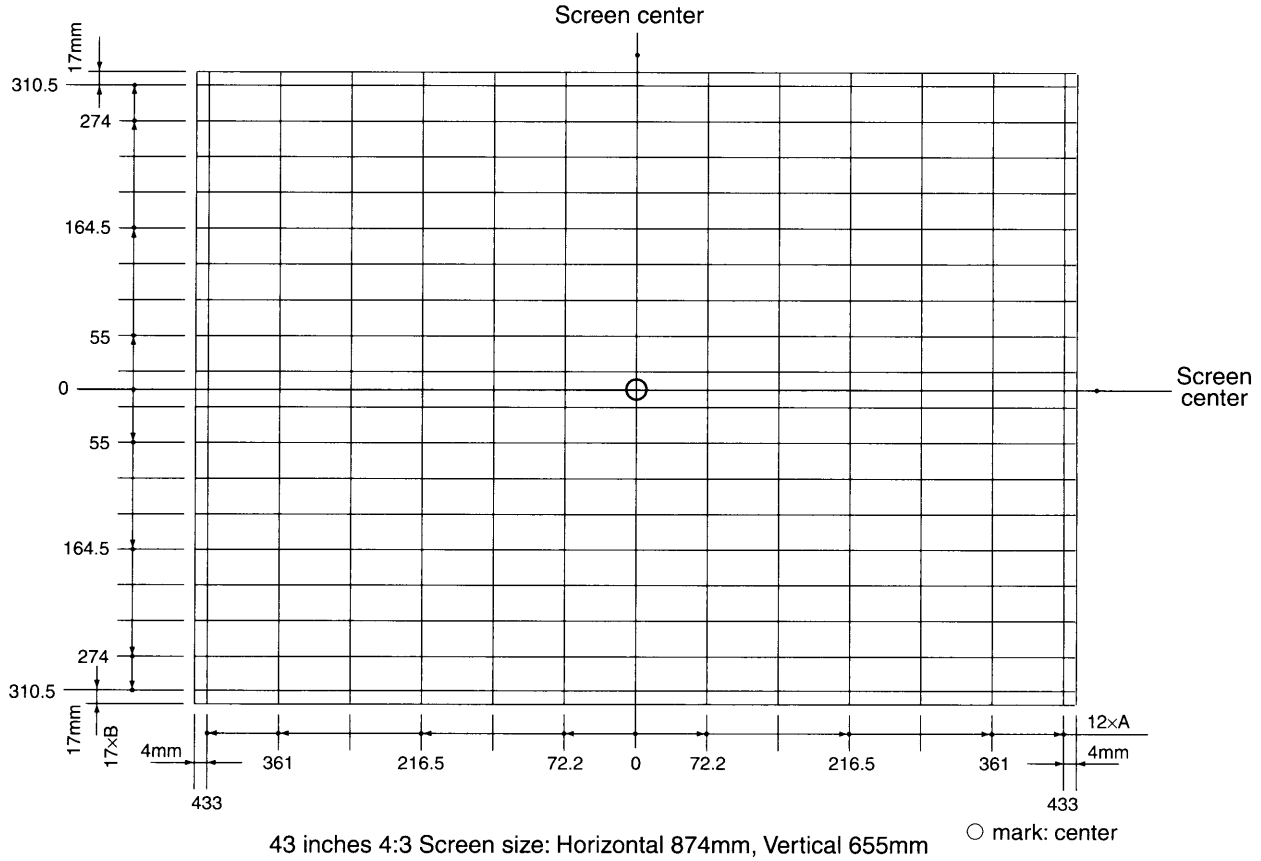
During this period, the changed data is transferred from RAM Q701 to E²PROM Q713, and saved.
The second picture is indicated with data on top left of the first picture, therefore, convergence cannot be adjusted by this picture.

Caution:

- Receive suitable signal for adjustment. Decide the center by cross pattern of static convergence in menu, and adjust convergence from center to circumference.

3. ADJUSTING PICTURE DIMENSION (GREEN PICTURE)

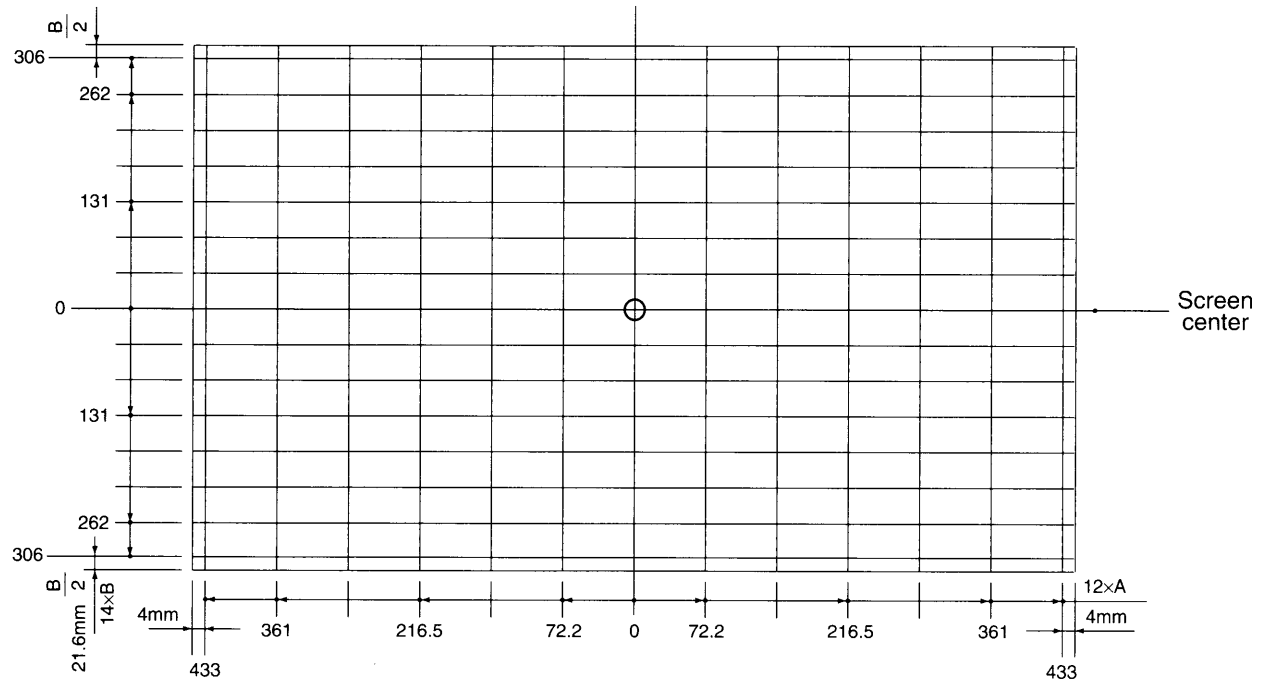
1.50 Hz mode (PAL)



○ mark: center

43 inches 4:3 Screen size: Horizontal 874mm, Vertical 655mm
Dimension A: 72.2mm, Dimension B: 36.5mm

2. 60Hz mode (NTSC)



43 inches 4:3 Screen size: Horizontal 874mm, Vertical 655mm
Dimension A: 72.2mm, Dimension B: 43.7mm

SCREEN AND MIRROR ALIGNMENTS

ASSEMBLING AND MOUNTING OF FRONT SCREEN

* Please refer to MECHANICAL DISASSEMBLY page.28.

CLEANING OF LENS AND MIRROR

CAUTION : Do not hold the optical system parts (lens and mirror) with bare hand to avoid finger-prints on the surface of those parts.

HOW TO CLEAN LENS AND MIRROR

1. Be sure to remove sand dust with an air brush, etc.
2. When it is stained slightly, breathe upon it and wipe away with the specified cleaning cloth.
   For other stains than the above, wipe the stains away with the specified cloth into which a cleaning liquid has been soaked.

Cleaning liquid ..... **LENS LUSTER** (Manufactured by Edmund Scientific Co.), etc.

HOW TO CLEAN SCREEN

When cleaning the screen, use a soft cloth so as not to damage the screen.

1. Wipe the stain away with a diluted neutral detergent soaked cloth.
2. Wipe the detergent away with a water soaked cloth.
3. Wipe the screen with a dry cloth to remove moisture on the screen.

Note : Absolutely do not use alcohol, benzine, thinner, etc. for cleaning in order not to wipe away the black print on the surface.

CIRCUIT CHECKS

HIGH VOLTAGE CHECK

CAUTION: There is no HIGH VOLTAGE ADJUSTMENT on this chassis. Checking should be done following the steps below.

1. Connect an accurate high voltage meter to the anode of the picture tube.
2. Turn on the receiver. Set the BRIGHTNESS and CONTRAST to minimum (zero beam current).
3. High voltage must be measured below (B) kV.

   Refer to table-1 for high voltage (B).
   (See SETTING & ADJUSTING DATA on page 24)
4. Vary the BRIGHTNESS to both extremes to be sure the high voltage does not exceed the limit under any conditions.

CAUTION:

When the following parts fail, check the High Voltage after replacing.

Location No.	Name	Name
T461	Flyback Trans.	TFB3078BD
D489	Zener Diode	MTZJ3.6B
Q480	Transistor	2SC2023
Q483	IC	TA7508P(J)
R435	Resistor	33k ohm, ±5%
R489	Resistor	3.3k ohm, ±5%
R490	Resistor	3.3k ohm, ±5%
R450	VR	1k ohm
C440	Capacitor	1000pF, ±3%
C443	Capacitor	6800pF, ±3%
C444	Capacitor	5100pF, ±3%

ANODE VOLTAGE MEASURING METHOD

CAUTION: Take extra precaution when measuring this high voltage. High voltages are also present in surrounding circuit boards (CRT DRIVE assembly, DEFLECTION assembly, and POWER SUPPLY assembly).

1. Disconnect the FBT anode cable as outlined below. Measure high voltage at the point where the cable enters the FBT.
2. Holding the rubber cover firmly, turn it counterclockwise and check that the lock has been disengaged. (See Fig. b on page 8.)
3. Determine the extent of the rubber cover before disconnecting the cable.
4. Pull straight up the anode cable to disconnect.
5. When reconnecting the cable, proceed in the reverse order.
   After reconnecting, tug on the cable to check that it is secure.

CHAPTER 2 SPECIFIC INFORMATIONS

SETTING & ADJUSTING DATA

【 SAFETY INSTRUCTIONS 】

		43"
HIGH VOLTAGE AT ZERO BEAM:	(A)	31.9 kV
MAX HIGH VOLTAGE:	(B)	32.5 kV
AV VOLTAGE	(C)	110~240 V

Table-1

【 SERVICE MODE 】

ADJUSTING ITEMS AND DATAS IN THE SERVICE MODE:

Item	Adjustment	Reference data
RCUT	R CUTOFF (B/W)	40H
GCUT	G CUTOFF (B/W)	40H
BCUT	B CUTOFF (B/W)	40H
RDRV	R DRIVE	40H
BDRV	B DRIVE	40H
CNTX	SUB CONTRAST MAX	7FH
BRTC	SUB BRIGHT CEN	80H
COLC	SUB COLOR CEN NTSC	15H
TNTC	SUB TINT CEN	48H
COLP	SUB COLOR CEN PAL	39H
COLS	SUB COLOR CEN SECAM	39H
COLD	SUB COLOR CEN DTV	00H
SCOL	SUB COLOR	07H
SCNT	SUB CONTRAST	10H
BELL	SECAM BELL FILTER	80H
SRY	SECAM R-Y	08H

Item	Adjustment	Reference data
SBY	SECAM B-Y	08H
HPOS	50Hz H-POSITION	0EH
VPOS	V-POSITION	06H
HIT	HEIGHT	52H
GMPS	V-POSITION (RASTER)	37H
VLIN	V-LINEARITY	13H
VSC	V-S CORRECTION	08H
VPS	V-SHIFT	15H
VCP	V-COMPENSATION	02H
WID	PICTURE WIDTH	1FH
PARA	E-W PARABOLA	05H
CNR	E-W CORNER	00H
TRAP	TRAPEZIUM	0BH
HCP	H-COMPENSATION	02H
VFC	V-F CORRECTION	0FH

Table-2

【 DESIGN MODE 】

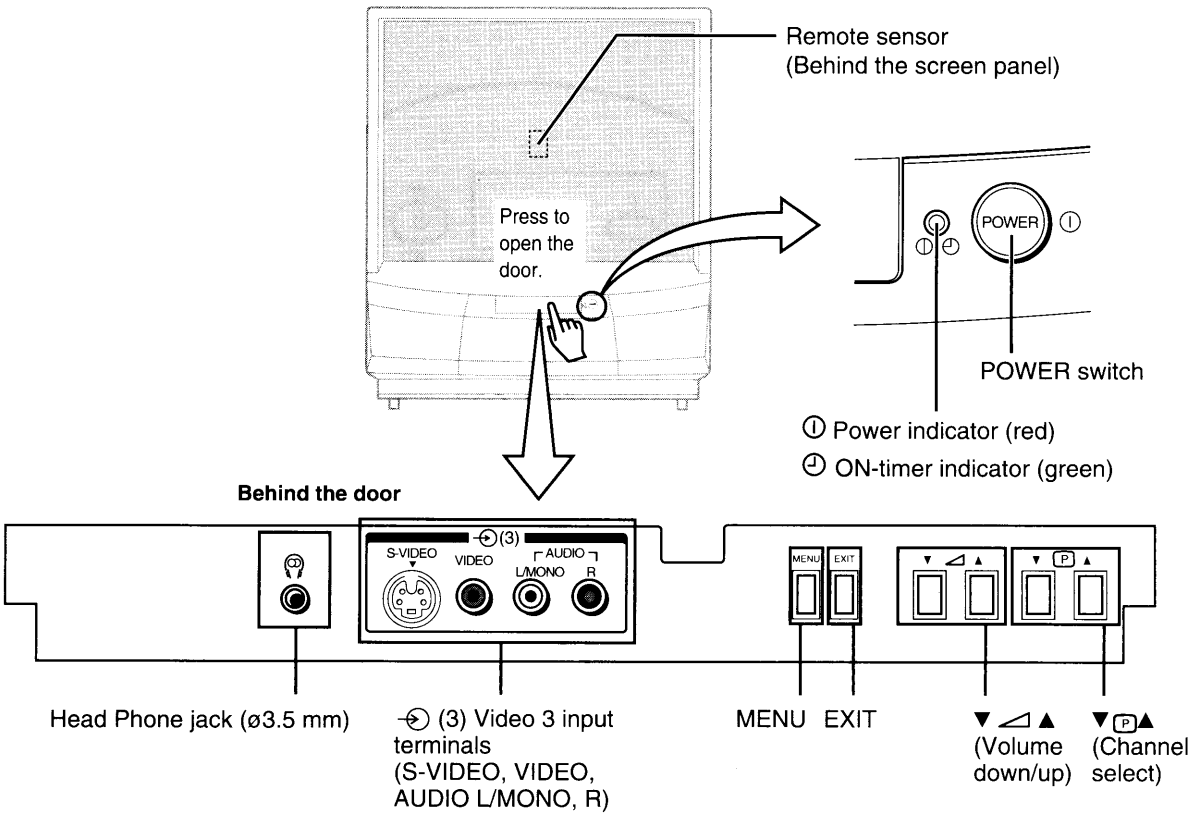
ADJUSTING ITEMS AND DATAS IN THE DESIGN MODE:

Item	Name of adjustment	Preset Data	43PJ93B	43PJ93G	Remarks
RCUT					
OPT1	OPTION 1	48H	48H	48H	
OPT0	OPTION 0	81H	81H	80H	
OSD					
.					
.					
.					
.					
RCUT					

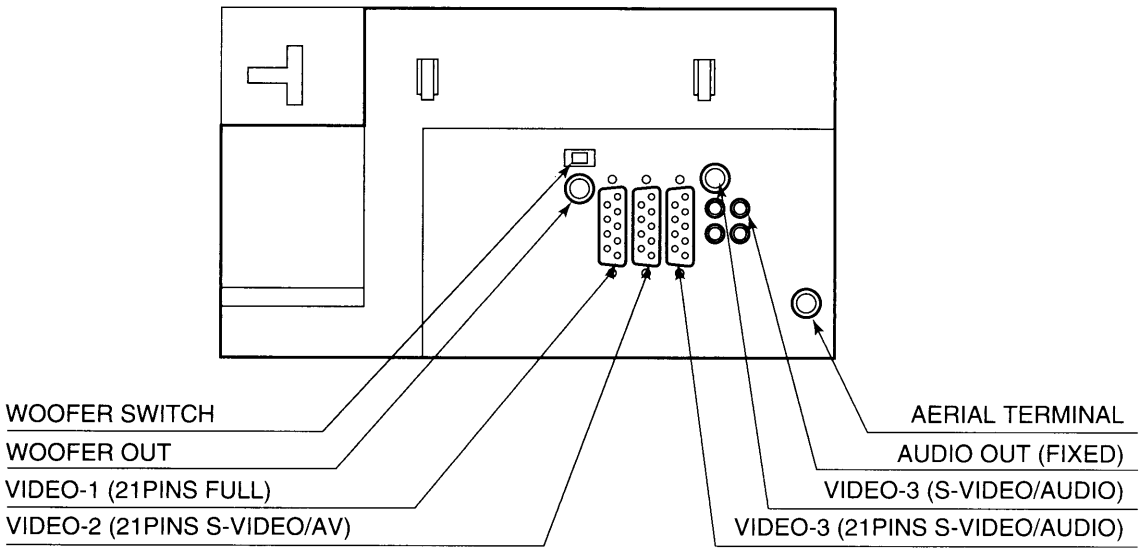
Table-3

LOCATION OF CONTROLS

Front

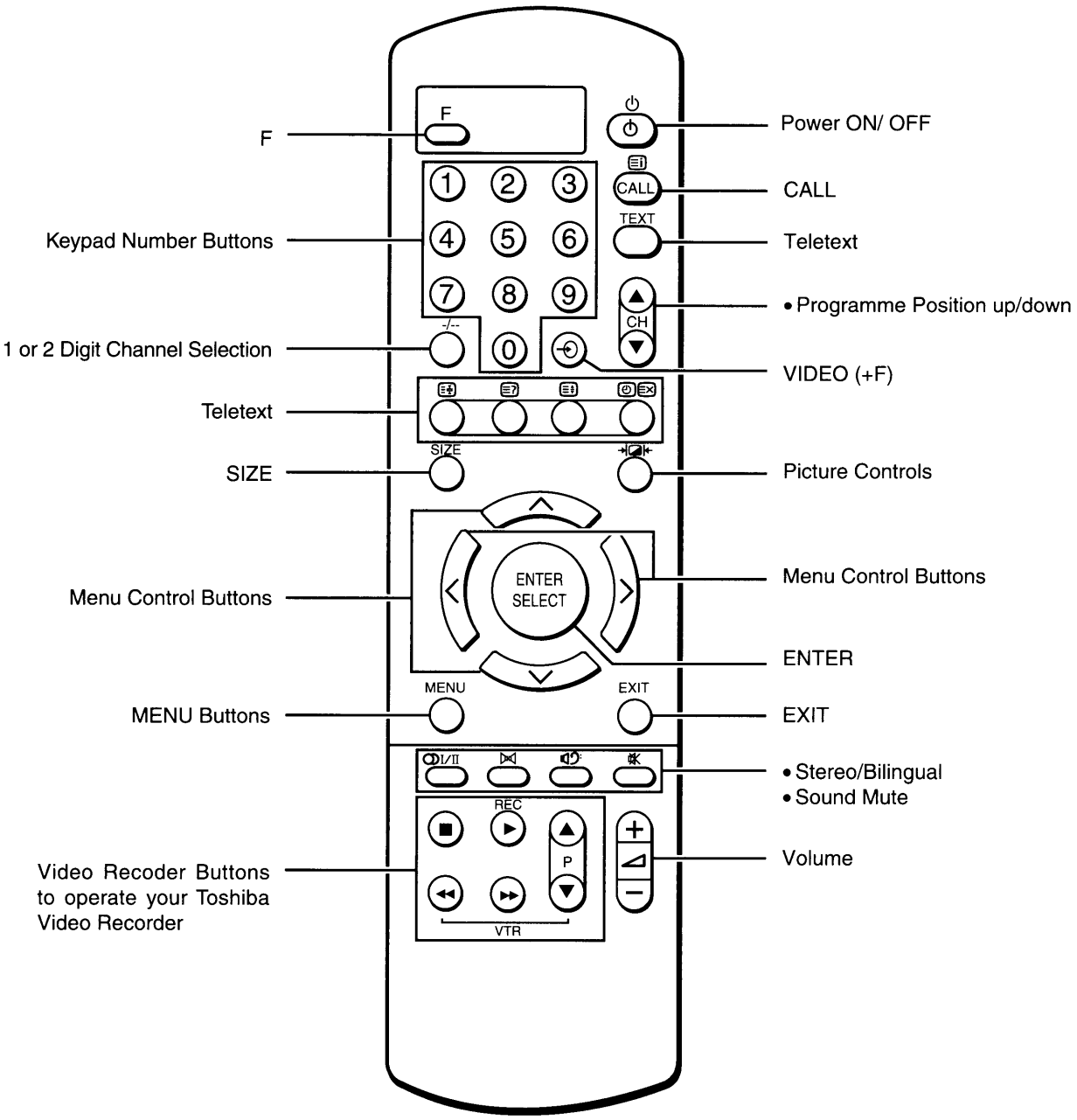


Back

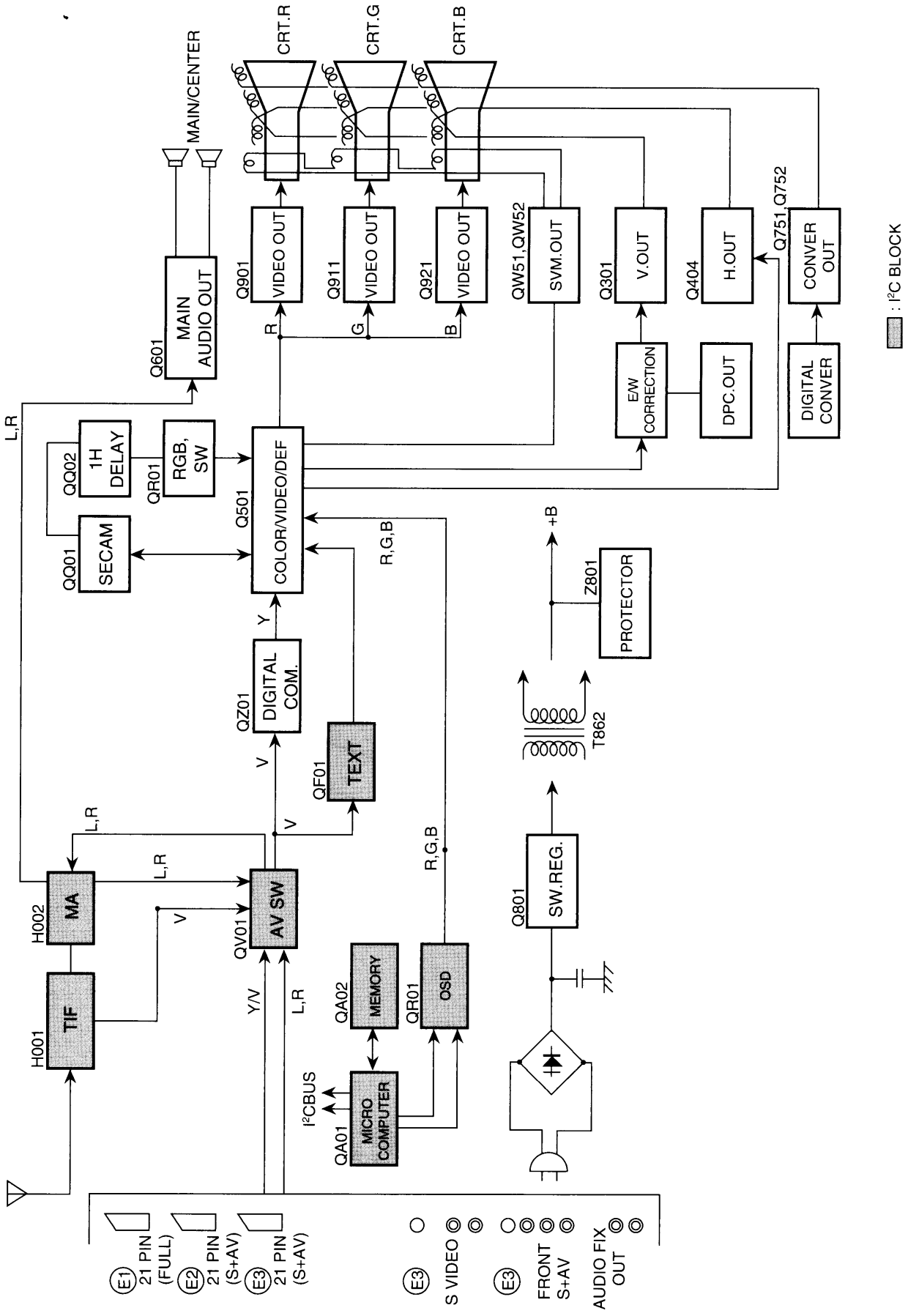


SPECIFIC INFORMATIONS

Remote Controller

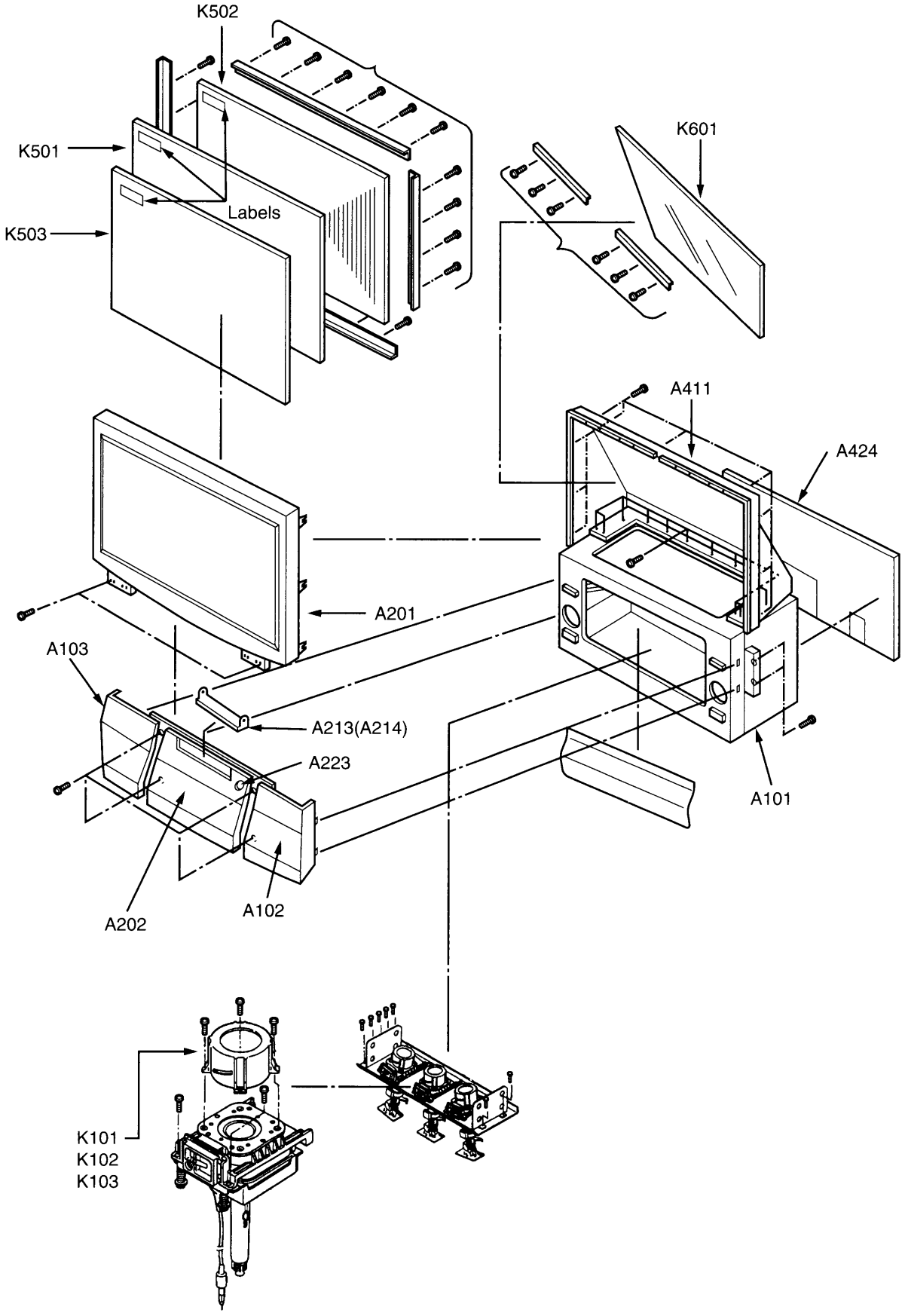


CIRCUIT BLOCK DIAGRAM



EXVIEW

MECHANICAL DISASSEMBLY



CHASSIS AND CABINET REPLACEMENT PARTS LIST

WARNING: BEFORE SERVICING THIS CHASSIS, READ THE "X-RAY RADIATION PRECAUTION", "SAFETY PRECAUTION" AND "PRODUCT SAFETY NOTICE" ON PAGE 3 OF THIS MANUAL.

CAUTION: The international hazard symbols "⚠" in the schematic diagram and the parts list designate components which have special characteristics important for safety and should be replaced only with types identical to those in the original circuit or specified in the parts list. The mounting position of replacements is to be identical with originals. Before replacing any of these components, read carefully the PRODUCT SAFETY NOTICE . Do not degrade the safety of the receiver through improper servicing.

NOTICE:
- *The part number must be used when ordering parts, in order to assist in processing, be sure to include the Model number and Description.*
- *The PC board assembly with * mark is no longer available after the end of the production.*

ABBREVIATIONS:

Capacitors	CD	: Ceramic Disk	PF	: Plastic Film	EL	: Electrolytic
Resistors	CF	: Carbon Film	CC	: Carbon Composition	MF	: Metal Film
	OMF	: Oxide Metal Film	VR	: Variable Resistor	FR	: Fusible Resistor

(All CD and PF capacitors are ±5%, 50V and all resistors, ±5%, 1/6W unless otherwise noted.)

Models : 43PJ93B, 43PJ93G

Location No.	Part No.	Description
CAPACITORS		
C101	24793220	EL, 22μF, ±20%, 10V
C102	24762221	EL, 220μF, ±20%, 10V
C105	24212102	CD, 1000pF, ±10%
C106	24797100	EL, 10μF, ±20%, 50V
C115	24232103	CD, 0.01μF, +80%, −20%
C116	24762221	EL, 220μF, ±20%, 10V
C183	24766479	EL, 4.7μF, ±20%, 50V
C194	24232103	CD, 0.01μF, +80%, −20%
C201	24538104	PF, 0.1μF
C203	24538104	PF, 0.1μF
C204	24669010	EL, 1μF, ±20%, 50V
C205	24669229	EL, 2.2μF, ±20%, 50V
C206	24206220	EL, 22μF, 50V
C212	24794100	EL, 10μF, ±20%, 16V
C214	24591334	PF, 0.33μF
C218	24781390	Chip, 39pF, SL
C219	24781100	Chip, 10pF, ±0.5%, SL
C220	24781100	Chip, 10pF, ±0.5%, SL
C221	24781100	Chip, 10pF, ±0.5%, SL
C228	24814103	Chip, 0.01μF, +80%, −20%
C229	24669010	EL, 1μF, ±20%, 50V
C230	24763221	EL, 220μF, ±20%, 16V
C231	24814103	Chip, 0.01μF, +80%, −20%
C232	24669010	EL, 1μF, ±20%, 50V
C260	24085967	EL, 47μF, ±20%, 16V, Non-Polar
C261	24669101	EL, 100μF, ±20%, 50V
C262	24814103	Chip, 0.01μF, +80%, −20%
C273	24206229	EL, 2.2μF, 50V
C281	24763101	EL, 100μF, ±20%, 16V
C282	24232103	CD, 0.01μF, +80%, −20%
C283	24794100	EL, 10μF, ±20%, 16V
C284	24794100	EL, 10μF, ±20%, 16V
C303	24214471	CD, 470pF, ±10%, 500V
C305	24617912	EL, 2.2μF, ±10%, 50V
C306	24617858	EL, 3300μF, ±20%, 35V
C307	24693473	PF, 0.047μF, 100V
C308	24669221	EL, 220μF, ±20%, 50V
C309	24212101	CD, 100pF, ±10%
C310	24669222	EL, 2200μF, ±20%, 50V

Location No.	Part No.	Description
C311	24214561	CD, 560pF, ±10%, 500V
C313	24082057	PF, 0.22μF, 100V
C314	24591103	PF, 0.01μF
C315	24797478	EL, 0.47μF, ±20%, 50V
C315	24591103	PF, 0.01μF
C318	24666222	EL, 2200μF, ±20%, 16V
C319	24591102	PF, 1000pF
C320	24669101	EL, 100μF, ±20%, 50V
C321	24591183	PF, 0.018μF
C322	24617912	EL, 2.2μF, ±10%, 50V
C323	24591224	PF, 0.22μF
C326	24591683	PF, 0.068μF
C340	24666100	EL, 10μF, ±20%, 16V
C344	24591102	PF, 1000pF
C350	24591104	PF, 0.1μF
C351	24667222	EL, 2200μF, ±20%, 25V
C352	24669229	EL, 2.2μF, ±20%, 50V
C357	24669100	EL, 10μF, ±20%, 50V
C360	24667100	EL, 10μF, ±20%, 25V
C361	24669100	EL, 10μF, ±20%, 50V
C362	24591104	PF, 0.1μF
C363	24085942	EL, 10μF, ±20%, 16V, Non-Polar
C364	24666100	EL, 10μF, ±20%, 16V
C370	24669101	EL, 100μF, ±20%, 50V
C371	24668100	EL, 10μF, ±20%, 35V
C403	24828124	PF, 0.12μF, 200V
C403	24591103	PF, 0.01μF
C404	24797229	EL, 2.2μF, ±20%, 50V
C413	24214821	CD, 820pF, ±10%, 500V
C415	24815392	CD, 0.0039μF, ±10%, 50V
C416	24678100	EL, 10μF, ±20%, 200V
C417	24214391	CD, 390pF, ±10%, 500V
C418	24095883	PF, 0.015μF, ±3%, 630V
C419	24095803	PF, 0.062μF, 400V
C420	24666101	EL, 100μF, ±20%, 16V
C423	24095779	PF, 0.62μF, 400V
C430	24814103	Chip, 0.01μF, +80%, −20%
C431	24763102	EL, 1000μF, ±20%, 16V
C440	24082323	PF, 1000pF, ±3%, 1500V
C443	24082348	PF, 6800pF, ±3%, 1500V

Location No.	Part No.	Description
C444	24082287	PF, 5100pF, ±3%, 1800V
C445	24828473	PF, 0.047μF, 200V
C445A	23960136	Adhesive, TSE3843-W
C446	24679330	EL, 33μF, ±20%, 250V
C447	24667102	EL, 1000μF, ±20%, 25V
C448	24640908	EL, 33μF, ±20%, 160V
C460	24669331	EL, 330μF, ±20%
C463	24212152	CD, 1500pF, ±10%
C464	24640872	EL, 10μF, ±20%, 100V
C465	24591332	PF, 3300pF
C466	24567394	PF, 0.39μF
C467	24820153	PF, 0.15μF, 630V
C468	24567474	PF, 0.47μF
C471	24206479	EL, 4.7μF, 50V
C475	24820103	PF, 0.01μF, 630V
C477	24092347	CD, 1500pF, ±10%, 2kV
C481	24567104	PF, 0.1μF
C482	24591152	PF, 1500pF
C483	24567224	PF, 0.22μF
C484	24591104	PF, 0.1μF
C485	24669101	EL, 100μF, ±20%, 50V
C493	24591124	PF, 0.12μF
C501	24781101	Chip, 100pF, SL
C502	24814103	Chip, 0.01μF, +80%, –20%
C503	24763221	EL, 220μF, ±20%, 16V
C504	24591222	PF, 2200pF
C505	24774120	Chip, 12pF, CH
C507	24774120	Chip, 12pF, CH
C508	24669010	EL, 1μF, ±20%, 50V
C509	24763101	EL, 100μF, ±20%, 16V
C510	24763101	EL, 100μF, ±20%, 16V
C511	24814103	Chip, 0.01μF, +80%, –20%
C512	24206228	EL, 0.22μF, 50V
C513	24814103	Chip, 0.01μF, +80%, –20%
C514	24538104	PF, 0.1μF
C515	24538104	PF, 0.1μF
C516	24781102	Chip, 1000pF, SL
C517	24774010	Chip, 1pF
C519	24774010	Chip, 1pF
C520	24781102	Chip, 1000pF, SL
C521	24781102	Chip, 1000pF, SL
C524	24781122	Chip, 1200pF
C525	24774181	Chip, 180pF
C554	24814103	Chip, 0.01μF, +80%, –20%
C555	24669010	EL, 1μF, ±20%, 50V
C556	24669010	EL, 1μF, ±20%, 50V
C601	24590102	PF, 1000pF
C602	24590102	PF, 1000pF
C603	24669100	EL, 10μF, ±20%, 50V
C604	24669100	EL, 10μF, ±20%, 50V
C605	24667101	EL, 100μF, ±20%, 25V
C606	24667101	EL, 100μF, ±20%, 25V
C607	24538104	PF, 0.1μF
C608	24538104	PF, 0.1μF
C609	24669102	EL, 1000μF, ±20%, 50V
C610	24669102	EL, 1000μF, ±20%, 50V
C611	24667221	EL, 220μF, ±20%, 25V
C613	24666471	EL, 470μF, ±20%, 16V
C636	24666100	EL, 10μF, ±20%, 16V
C661	24436101	CD, 100pF
C665	24669010	EL, 1μF, ±20%, 50V
C666	24669010	EL, 1μF, ±20%, 50V
C671	24669100	EL, 10μF, ±20%, 50V
C672	24232103	CD, 0.01μF, +80%, –20%

Location No.	Part No.	Description
C673	24781102	Chip, 1000pF, SL
C674	24669100	EL, 10μF, ±20%, 50V
C674	24781102	Chip, 1000pF, SL
C675	24781102	Chip, 1000pF, SL
C675	24669100	EL, 10μF, ±20%, 50V
C676	24669100	EL, 10μF, ±20%, 50V
C676	24781102	Chip, 1000pF, SL
C677	24668221	EL, 220μF, ±20%, 35V
C678	24781102	Chip, 1000pF, SL
C679	24781102	Chip, 1000pF, SL
C680	24669222	EL, 2200μF, ±20%, 50V
C681	24781102	Chip, 1000pF, SL
C682	24669010	EL, 1μF, ±20%, 50V
C682	24781102	Chip, 1000pF, SL
C696	24762102	EL, 1000μF, ±20%, 10V
C697	24794101	EL, 100μF, ±20%, 16V
C701	24781330	Chip, 33pF, SL
C702	24781330	Chip, 33pF, SL
C711	24206100	EL, 10μF, 50V
C714	24092293	Chip, 0.1μF, +80%,–20%, 25V
C715	24092441	Chip, 1μF, +80%,–20%, 16V
C716	24815822	Chip, 8200pF, ±10%
C717	24774470	Chip, 47pF, CH
C718	24774470	Chip, 47pF, CH
C719	24794101	EL, 100μF, ±20%, 16V
C720	24092293	Chip, 0.1μF, +80%,–20%, 25V
C721	24538104	PF, 0.1μF
C722	24092293	Chip, 0.1μF, +80%,–20%, 25V
C724	24092293	Chip, 0.1μF, +80%,–20%, 25V
C725	24092293	Chip, 0.1μF, +80%,–20%, 25V
C726	24092293	Chip, 0.1μF, +80%,–20%, 25V
C727	24092293	Chip, 0.1μF, +80%,–20%, 25V
C728	24763221	EL, 220μF, ±20%, 16V
C729	24092293	Chip, 0.1μF, +80%,–20%, 25V
C730	24538104	PF, 0.1μF
C731	24766010	EL, 1.0μF, ±20%, 50V
C732	24590822	PF, 8200pF
C735	24092293	Chip, 0.1μF, +80%,–20%, 25V
C736	24794470	EL, 47μF, ±20%, 16V
C739	24092293	Chip, 0.1μF, +80%,–20%, 25V
C740	24092293	Chip, 0.1μF, +80%,–20%, 25V
C741	24794470	EL, 47μF, ±20%, 16V
C742	24794470	EL, 47μF, ±20%, 16V
C743	24092293	Chip, 0.1μF, +80%,–20%, 25V
C744	24092293	Chip, 0.1μF, +80%,–20%, 25V
C745	24794470	EL, 47μF, ±20%, 16V
C746	24794470	EL, 47μF, ±20%, 16V
C747	24092293	Chip, 0.1μF, +80%,–20%, 25V
C748	24092293	Chip, 0.1μF, +80%,–20%, 25V
C749	24794470	EL, 47μF, ±20%, 16V
C750	24794470	EL, 47μF, ±20%, 16V
C756	24781330	Chip, 33pF, SL
C761	24590182	PF, 1800pF
C762	24590562	PF, 5600pF
C763	24774391	Chip, 390pF
C765	24590182	PF, 1800pF
C766	24590562	PF, 5600pF
C767	24774391	Chip, 390pF
C769	24590182	PF, 1800pF
C770	24590562	PF, 5600pF
C771	24774391	Chip, 390pF
C773	24590182	PF, 1800pF
C774	24590562	PF, 5600pF
C775	24774391	Chip, 390pF

Location No.	Part No.	Description
C777	24590182	PF, 1800pF
C778	24590562	PF, 5600pF
C779	24774391	Chip, 390pF
C781	24590182	PF, 1800pF
C782	24590562	PF, 5600pF
C783	24774391	Chip, 390pF
C795	24761221	EL, 220μF, ±20%, 6.3V
C798	24763101	EL, 100μF, ±20%, 16V
C799	24763101	EL, 100μF, ±20%, 16V
⚠C801	24082374	PF, 0.22μF, AC250V
⚠C802	24092557	CD, 2200pF, ±20%, AC250V
⚠C803	24092557	CD, 2200pF, ±20%, AC250V
⚠C804	24092570	CD, 3300pF, ±20%, AC250V
⚠C805	24082374	PF, 0.22μF, AC250V
C806	24082374	PF, 0.22μF, AC250V
C807	24617797	EL, 1000μF, ±20%, 25V
C808	24617816	EL, 10μF, ±20%, 50V
C809	24567105	PF, 1μF
C810	24086935	EL, 560μF, ±20%, 400V
C811	24676478	EL, 0.47μF, ±20%, 100V
C812	24092281	CD, 4700pF, ±20%, AC250V
C813	24092281	CD, 4700pF, ±20%, AC250V
C814	24678229	EL, 2.2μF, ±20%, 200V
C815	24567474	PF, 0.47μF
C816	24617817	EL, 22μF, ±20%, 50V
C817	24567224	PF, 0.22μF
C819	24214471	CD, 470pF, ±10%, 500V
C820	24567104	PF, 0.1μF
C821	24092480	CD, 680pF, ±10%, 2kV
C822	24092481	CD, 820pF, ±10%, 2kV
C823	24092474	CD, 220pF, ±10%, 2kV
C824	24214103	CD, 0.01μF, ±10%, 500V
C825	24591472	PF, 4700pF
C826	24092474	CD, 220pF, ±10%, 2kV
C828	24820563	PF, 0.056μF, 630V
C829	24617820	EL, 100μF, ±20%, 50V
C830	24567105	PF, 1μF
C831	24669220	EL, 22μF, ±20%, 50V
C853	24668102	EL, 1000μF, ±20%, 35V
C855	24214471	CD, 470pF, ±10%, 500V
C856	24214471	CD, 470pF, ±10%, 500V
C857	24214471	CD, 470pF, ±10%, 500V
C858	24214471	CD, 470pF, ±10%, 500V
C859	24214471	CD, 470pF, ±10%, 500V
C860	24669471	EL, 470μF, ±20%, 50V
C861	24668332	EL, 3300μF, ±20%, 35V
C862	24668471	EL, 470μF, ±20%, 35V
C863	24668332	EL, 3300μF, ±20%, 35V
C864	24668471	EL, 470μF, ±20%, 35V
C865	24214471	CD, 470pF, ±10%, 500V
C866	24214471	CD, 470pF, ±10%, 500V
C867	24214471	CD, 470pF, ±10%, 500V
C868	24214471	CD, 470pF, ±10%, 500V
C869	24669222	EL, 2200μF, ±20%, 50V
C870	24214471	CD, 470pF, ±10%, 500V
C871	24214471	CD, 470pF, ±10%, 500V
C872	24214471	CD, 470pF, ±10%, 500V
C873	24214471	CD, 470pF, ±10%, 500V
C874	24212102	CD, 1000pF, ±10%
C875	24667472	EL, 4700μF, ±20%, 25V
C876	24086916	EL, 330μF, ±20%, 160V
C877	24092475	CD, 270pF, ±10%, 2kV
C878	24092475	CD, 270pF, ±10%, 2kV
C879	24092475	CD, 270pF, ±10%, 2kV

Location No.	Part No.	Description
C880	24092475	CD, 270pF, ±10%, 2kV
C881	24567474	PF, 0.47μF
C882	24617817	EL, 22μF, ±20%, 50V
C883	24082229	PF, 0.1μF, ±10%, 250V
C884	24617816	EL, 10μF, ±20%, 50V
C885	24617813	EL, 2.2μF, ±20%, 50V
C886	24677470	EL, 47μF, ±20%, 160V
C889	24212471	CD, 470pF, ±10%
C901	24211102	CD, 1000pF, ±10%, 2kV
C902	24794100	EL, 10μF, ±20%, 16V
C903	24232103	CD, 0.01μF, +80%, −20%
C904	24436681	CD, 680pF
C905	24214102	CD, 1000pF, ±10%, 500V
C911	24211102	CD, 1000pF, ±10%, 2kV
C912	24794100	EL, 10μF, ±20%, 16V
C913	24232103	CD, 0.01μF, +80%, −20%
C914	24436681	CD, 680pF
C915	24679330	EL, 33μF, ±20%, 250V
C915A	23960136	Adhesive, TSE3843-W
C916	24794101	EL, 100μF, ±20%, 16V
C921	24211102	CD, 1000pF, ±10%, 2kV
C922	24794100	EL, 10μF, ±20%, 16V
C923	24436681	CD, 680pF
C923	24794470	EL, 47μF, ±20%, 16V
C924	24232103	CD, 0.01μF, +80%, −20%
C926	24436681	CD, 680pF
C930	24794470	EL, 47μF, ±20%, 16V
C941	24797478	EL, 0.47μF, ±20%, 50V
C943	24667102	EL, 1000μF, ±20%, 25V
C944	24206100	EL, 10μF, 50V
C961	24666101	EL, 100μF, ±20%, 16V
C962	24203100	EL, 10μF, ±20%, 16V
C963	24232103	CD, 0.01μF, +80%, −20%
C964	24232103	CD, 0.01μF, +80%, −20%
C6101	24232103	CD, 0.01μF, +80%, −20%
C6102	24232103	CD, 0.01μF, +80%, −20%
C7701	24761221	EL, 220μF, ±20%, 6.3V
C7703	24232103	CD, 0.01μF, +80%, −20%
C7721	24212102	CD, 1000pF, ±10%
C7722	24436101	CD, 100pF
C7724	24667101	EL, 100μF, ±20%, 25V
C7725	24667101	EL, 100μF, ±20%, 25V
C7726	24212102	CD, 1000pF, ±10%
C7727	24436101	CD, 100pF
C7729	24212102	CD, 1000pF, ±10%
C7730	24436101	CD, 100pF
C7732	24212102	CD, 1000pF, ±10%
C7733	24436101	CD, 100pF
C7735	24667101	EL, 100μF, ±20%, 25V
C7736	24669101	EL, 100μF, ±20%, 50V
C7737	24212102	CD, 1000pF, ±10%
C7738	24436101	CD, 100pF
C7740	24212102	CD, 1000pF, ±10%
C7741	24436101	CD, 100pF
C7742	24436330	CD, 33pF
C7743	24436330	CD, 33pF
C7747	24667101	EL, 100μF, ±20%, 25V
C7748	24567104	PF, 0.1μF
C7749	24567104	PF, 0.1μF
C7750	24667101	EL, 100μF, ±20%, 25V
C7751	24667101	EL, 100μF, ±20%, 25V
C7752	24567104	PF, 0.1μF
C7753	24567104	PF, 0.1μF
C7754	24667101	EL, 100μF, ±20%, 25V

Location No.	Part No.	Description
C7755	24667101	EL, 100μF, ±20%, 25V
C7756	24567104	PF, 0.1μF
C7757	24567104	PF, 0.1μF
C7758	24667101	EL, 100μF, ±20%, 25V
C7760	24667470	EL, 47μF, ±20%, 25V
C7761	24667470	EL, 47μF, ±20%, 25V
C7762	24669100	EL, 10μF, ±20%, 50V
C7763	24667470	EL, 47μF, ±20%, 25V
C7764	24598331	PF, 330pF
C7767	24667470	EL, 47μF, ±20%, 25V
C7768	24567104	PF, 0.1μF
C7769	24232103	CD, 0.01μF, +80%, -20%
C7770	24669470	EL, 47μF, ±20%, 50V
C7771	24567103	PF, 0.01μF
C7772	24667101	EL, 100μF, ±20%, 25V
C7773	24669101	EL, 100μF, ±20%, 50V
C7774	24436331	CD, 330pF
C7775	24667101	EL, 100μF, ±20%, 25V
C7776	24667470	EL, 47μF, ±20%, 25V
C7777	24669470	EL, 47μF, ±20%, 50V
C7778	24567104	PF, 0.1μF
C7779	24669479	EL, 4.7μF, ±20%, 50V
C8301	24666101	EL, 100μF, ±20%, 16V
C8302	24669100	EL, 10μF, ±20%, 50V
C8303	24669100	EL, 10μF, ±20%, 50V
C8304	24666101	EL, 100μF, ±20%, 16V
C8305	24666470	EL, 47μF, ±20%, 16V
C8306	24666470	EL, 47μF, ±20%, 16V
C8307	24591334	PF, 0.33μF
C9602	24794100	EL, 10μF, ±20%, 16V
CA14	24232103	CD, 0.01μF, +80%, -20%
CA15	24232103	CD, 0.01μF, +80%, -20%
CA19	24436101	CD, 100pF
CA24	24436101	CD, 100pF
CA41	24436101	CD, 100pF
CA42	24436101	CD, 100pF
CA43	24436101	CD, 100pF
CA68	24794100	EL, 10μF, ±20%, 16V
CA69	24232103	CD, 0.01μF, +80%, -20%
CA106	24436101	CD, 100pF
CA420	24794100	EL, 10μF, ±20%, 16V
CA430	24232103	CD, 0.01μF, +80%, -20%
CA440	24232103	CD, 0.01μF, +80%, -20%
CB01	24794470	EL, 47μF, ±20%, 16V
CB90	24232103	CD, 0.01μF, +80%, -20%
CC08	24815102	Chip, 1000pF, ±10%, B
CC15	24212102	CD, 1000pF, ±10%
CC16	24212102	CD, 1000pF, ±10%
CC17	24212102	CD, 1000pF, ±10%
CC18	24436101	CD, 100pF
CC19	24436101	CD, 100pF
CC23	24814103	Chip, 0.01μF, +80%, -20%
CC29	24232103	CD, 0.01μF, +80%, -20%
CC30	24591474	PF, 0.47μF
CC32	24232103	CD, 0.01μF, +80%, -20%
CC34	24232103	CD, 0.01μF, +80%, -20%
CC39	24232103	CD, 0.01μF, +80%, -20%
CF03	24567104	PF, 0.1μF
CF04	24766101	PF, 0.1μF
CF05	24766101	PF, 0.1μF
CF06	24774220	Chip, 22pF, CH
CF07	24774220	Chip, 22pF, CH
CF08	24567104	PF, 0.1μF
CF09	24567104	PF, 0.1μF

Location No.	Part No.	Description
CF10	24206100	EL, 10μF, 50V
CF11	24567104	PF, 0.1μF
CF12	24814103	Chip, 0.01μF, +80%, -20%
CF14	24814103	Chip, 0.01μF, +80%, -20%
CF16	24567224	PF, 0.22μF
CF17	24794101	EL, 100μF, ±20%, 16V
CF18	24794101	EL, 100μF, ±20%, 16V
CF19	24814103	Chip, 0.01μF, +80%, -20%
CF20	24766010	EL, 1.0μF, ±20%, 50V
CQ01	24781102	Chip, 1000pF, SL
CQ02	24781820	Chip, 82pF, SL
CQ03	24781102	Chip, 1000pF, SL
CQ04	24203100	EL, 10μF, ±20%, 16V
CQ05	24591563	PF, 0.056μF
CQ07	24591203	PF, 0.02μF
CQ08	24567683	PF, 0.068μF
CQ09	24206229	EL, 2.2μF, 50V
CQ10	24591223	PF, 0.022μF
CQ11	24206229	EL, 2.2μF, 50V
CQ12	24781820	Chip, 82pF, SL
CQ13	24669010	EL, 1μF, ±20%, 50V
CQ14	24669010	EL, 1μF, ±20%, 50V
CQ15	24763101	EL, 100μF, ±20%, 16V
CQ16	24814103	Chip, 0.01μF, +80%, -20%
CQ17	24774150	Chip, 15pF, CH
CQ18	24781820	Chip, 82pF, SL
CQ19	24590103	PF, 0.01μF
CQ20	24567104	PF, 0.1μF
CQ21	24794470	EL, 47μF, ±20%, 16V
CQ22	24814103	Chip, 0.01μF, +80%, -20%
CQ23	24567104	PF, 0.1μF
CQ24	24567104	PF, 0.1μF
CQ25	24797100	EL, 10μF, ±20%, 50V
CQ26	24567104	PF, 0.1μF
CQ27	24567104	PF, 0.1μF
CQ28	24797478	EL, 0.47μF, ±20%, 50V
CQ29	24794101	EL, 100μF, ±20%, 16V
CQ30	24814103	Chip, 0.01μF, +80%, -20%
CQ31	24797478	EL, 0.47μF, ±20%, 50V
CQ32	24590103	PF, 0.01μF
CQ33	24567104	PF, 0.1μF
CQ34	24567104	PF, 0.1μF
CQ35	24206478	EL, 0.47μF, 50V
CQ36	24206478	EL, 0.47μF, 50V
CQ37	24669010	EL, 1μF, ±20%, 50V
CQ38	24669010	EL, 1μF, ±20%, 50V
CQ39	24669010	EL, 1μF, ±20%, 50V
CQ40	24781820	Chip, 82pF, SL
CQ41	24781090	Chip, 9pF
CQ42	24781090	Chip, 9pF
CQ43	24781090	Chip, 9pF
CQ45	24781102	Chip, 1000pF, SL
CQ46	24781102	Chip, 1000pF, SL
CQ61	24781102	Chip, 1000pF, SL
CQ62	24781470	Chip, 47pF, SL
CQ63	24781470	Chip, 47pF, SL
CR01	24206010	EL, 1μF, 50V
CR01	24567104	PF, 0.1μF
CR02	24232103	CD, 0.01μF, +80%, -20%
CR02	24567104	PF, 0.1μF
CR03	24436101	CD, 100pF
CR03	24567104	PF, 0.1μF
CR04	24567104	PF, 0.1μF
CR05	24567104	PF, 0.1μF

Location No.	Part No.	Description
CR06	24567104	PF, 0.1μF
CR07	24814103	Chip, 0.01μF, +80%, −20%
CR08	24794100	EL, 10μF, ±20%, 16V
CR09	24814103	Chip, 0.01μF, +80%, −20%
CR09	24538104	PF, 0.1μF
CR10	24794470	EL, 47μF, ±20%, 16V
CR11	24538104	PF, 0.1μF
CR12	24567104	PF, 0.1μF
CR13	24567104	PF, 0.1μF
CR14	24567104	PF, 0.1μF
CR18	24538104	PF, 0.1μF
CR19	24538104	PF, 0.1μF
CR20	24538104	PF, 0.1μF
CS01	24085944	EL, 2.2μF, ±20%, 50V, Non-Polar
CS02	24085944	EL, 2.2μF, ±20%, 50V, Non-Polar
CS03	24206229	EL, 2.2μF, 50V
CS04	24206229	EL, 2.2μF, 50V
CS05	24206229	EL, 2.2μF, 50V
CS06	24206229	EL, 2.2μF, 50V
CS07	24206229	EL, 2.2μF, 50V
CS08	24206229	EL, 2.2μF, 50V
CS12	24781102	Chip, 1000pF, SL
CS13	24781102	Chip, 1000pF, SL
CS14	24206100	EL, 10μF, 50V
CS15	24206100	EL, 10μF, 50V
CS17	24203100	EL, 10μF, ±20%, 16V
CS18	24203100	EL, 10μF, ±20%, 16V
CS19	24206478	EL, 0.47μF, 50V
CS22	24203100	EL, 10μF, ±20%, 16V
CS23	24203100	EL, 10μF, ±20%, 16V
CS52	24206100	EL, 10μF, 50V
CS53	24781102	Chip, 1000pF, SL
CV01	24567103	PF, 0.01μF
CV02	24085970	EL, 10μF, ±20%, 16V, Non-Polar
CV03	24203100	EL, 10μF, ±20%, 16V
CV04	24203100	EL, 10μF, ±20%, 16V
CV05	24814103	Chip, 0.01μF, +80%, −20%
CV06	24203100	EL, 10μF, ±20%, 16V
CV08	24763102	EL, 1000μF, ±20%, 16V
CV10	24085970	EL, 10μF, ±20%, 16V, Non-Polar
CV11	24781331	Chip, 330pF, SL
CV12	24092178	Chip, 0.1μF, ±10%, B
CV13	24814103	Chip, 0.01μF, +80%, −20%
CV14	24781102	Chip, 1000pF, SL
CV15	24781102	Chip, 1000pF, SL
CV16	24781102	Chip, 1000pF, SL
CV17	24781102	Chip, 1000pF, SL
CV18	24781102	Chip, 1000pF, SL
CV19	24781102	Chip, 1000pF, SL
CV20	24781430	Chip, 43pF, ±5%, SL
CV23	24203101	EL, 100μF, ±20%, 16V
CV24	24814103	Chip, 0.01μF, +80%, −20%
CV25	24763471	EL, 470μF, ±20%, 16V
CV31	24781102	Chip, 1000pF, SL
CV34	24781102	Chip, 1000pF, SL
CV35	24814103	Chip, 0.01μF, +80%, −20%
CV37	24781102	Chip, 1000pF, SL
CV39	24203101	EL, 100μF, ±20%, 16V
CV40	24814103	Chip, 0.01μF, +80%, −20%
CV46	24212332	CD, 3300pF, ±10%

Location No.	Part No.	Description
CV47	24212332	CD, 3300pF, ±10%
CV48	24212102	CD, 1000pF, ±10%
CV65	24203101	EL, 100μF, ±20%, 16V
CV66	24203101	EL, 100μF, ±20%, 16V
CV67	24763471	EL, 470μF, ±20%, 16V
CV68	24763471	EL, 470μF, ±20%, 16V
CV78	24781330	Chip, 33pF, SL
CW04	24591822	PF, 8200pF
CW05	24212103	CD, 0.01μF, ±10%
CW07	24666470	EL, 47μF, ±20%, 16V
CW12	24666470	EL, 47μF, ±20%, 16V
CW13	24790100	EL, 10μF, ±20%, 160V
CW14	24436101	CD, 100pF
CW15	24214472	CD, 4700pF, ±10%, 500V
CW16	24436101	CD, 100pF
CW17	24214472	CD, 4700pF, ±10%, 500V
CW18	24666470	EL, 47μF, ±20%, 16V
CW19	24435560	CD, 56pF, 500V
CW20	24790100	EL, 10μF, ±20%, 160V
CW21	24794470	EL, 47μF, ±20%, 16V
CW22	24212561	CD, 560pF, ±10%
CW26	24212102	CD, 1000pF, ±10%
CZ03	24092442	Chip, 0.47μF, ±10%, 16V
CZ05	24814103	Chip, 0.01μF, +80%, −20%
CZ07	24092178	Chip, 0.1μF, ±10%, B
CZ09	24781220	Chip, 22pF, SL
CZ10	24781100	Chip, 10pF, ±0.5%, SL
CZ11	24781220	Chip, 22pF, SL
CZ12	24814103	Chip, 0.01μF, +80%, −20%
CZ13	24814103	Chip, 0.01μF, +80%, −20%
CZ14	24203100	EL, 10μF, ±20%, 16V
CZ17	24814103	Chip, 0.01μF, +80%, −20%
CZ19	24781181	Chip, 180pF, SL
CZ20	24815103	Chip, 0.01μF, ±10%, B
CZ20	24815103	Chip, 0.01μF, ±10%, B
CZ21	24781122	Chip, 1200pF
CZ21	24781122	Chip, 1200pF
CZ22	24203100	EL, 10μF, ±20%, 16V
CZ22	24203100	EL, 10μF, ±20%, 16V
CZ23	24814103	Chip, 0.01μF, +80%, −20%
CZ23	24814103	Chip, 0.01μF, +80%, −20%
CZ24	24814103	Chip, 0.01μF, +80%, −20%
CZ25	24203100	EL, 10μF, ±20%, 16V
CZ26	24814103	Chip, 0.01μF, +80%, −20%
CZ28	24814103	Chip, 0.01μF, +80%, −20%
CZ29	24814103	Chip, 0.01μF, +80%, −20%
CZ30	24203100	EL, 10μF, ±20%, 16V
CZ31	24092178	Chip, 0.1μF, ±10%, B
CZ32	24781470	Chip, 47pF, SL
CZ33	24781470	Chip, 47pF, SL
CZ34	24781470	Chip, 47pF, SL
CZ35	24781470	Chip, 47pF, SL
CZ45	24781100	Chip, 10pF, ±0.5%, SL

RESISTORS

R101	24382223	OMF, 22k ohm, 1W
R201	24872101	Chip, 100 ohm, 1/16W
R204	24872104	Chip, 100k ohm, 1/16W
R205	24872101	Chip, 100 ohm, 1/16W
R206	24872222	Chip, 2200 ohm, 1/16W
R207	24872103	Chip, 10k ohm, 1/16W
R208	24872103	Chip, 10k ohm, 1/16W
R209	24872103	Chip, 10k ohm, 1/16W
R216	24872103	Chip, 10k ohm, 1/16W

Location No.	Part No.	Description
R218	24872101	Chip, 100 ohm, 1/16W
R219	24872101	Chip, 100 ohm, 1/16W
R220	24872101	Chip, 100 ohm, 1/16W
R222	24872333	Chip, 33k ohm, 1/16W
R223	24872332	Chip, 3300 ohm, 1/16W
R224	24000824	Chip, Jumper, 2125 type
R225	24000824	Chip, Jumper, 2125 type
R226	24000824	Chip, Jumper, 2125 type
R231	24872222	Chip, 2200 ohm, 1/16W
R260	24872153	Chip, 15k ohm, 1/16W
R261	24872682	Chip, 6800 ohm, 1/16W
R266	24872222	Chip, 2200 ohm, 1/16W
R267	24872222	Chip, 2200 ohm, 1/16W
R268	24872101	Chip, 100 ohm, 1/16W
R269	24872471	Chip, 470 ohm, 1/16W
R273	24872473	Chip, 47k ohm, 1/16W
R274	24872102	Chip, 1k ohm, 1/16W
R275	24872101	Chip, 100 ohm, 1/16W
R276	24872683	Chip, 68k ohm, 1/16W
R277	24872103	Chip, 10k ohm, 1/16W
R281	24366102	CF, 1k ohm
R282	24366102	CF, 1k ohm
R283	24366472	CF, 4700 ohm
R291	24366123	CF, 12k ohm
R292	24366103	CF, 10k ohm
R293	24366333	CF, 33k ohm
R297	24366102	CF, 1k ohm
R298	24367912	CF, 9100 ohm, ±2%
R299	24367103	CF, 10k ohm, ±2%
R301	24366102	CF, 1k ohm
R303	24321129	MF, 1.2 ohm, 1/2W
R304	24366223	CF, 22k ohm
R305	24322828	OMF, 0.82 ohm, 1W
R306	24366563	CF, 56k ohm
R307	24366224	CF, 220k ohm
R308	24382391	OMF, 390 ohm, 1W
R313	24366153	CF, 15k ohm
R313	24366104	CF, 100k ohm
R314	24366105	CF, 1M ohm
R315	24366824	CF, 820k ohm
R316	24366274	CF, 270k ohm
R318	24366471	CF, 470 ohm
R319	24366471	CF, 470 ohm
R320	24366101	CF, 100 ohm
R321	24872682	Chip, 6800 ohm, 1/16W
R327	24000187	FR, 3.3 ohm, 1W
R329	24366153	CF, 15k ohm
R330	24366102	CF, 1k ohm
R334	24366102	CF, 1k ohm
R336	24383271	OMF, 270 ohm, 2W
R341	24366472	CF, 4700 ohm
R343	24366153	CF, 15k ohm
R346	24366102	CF, 1k ohm
R347	24366184	CF, 180k ohm
R350	24366222	CF, 2200 ohm
R351	24366823	CF, 82k ohm
R352	24366222	CF, 2200 ohm
R352	24366104	CF, 100k ohm
R353	24366682	CF, 6800 ohm
R353	24552101	OMF, 100 ohm, 1/2W
R354	24366222	CF, 2200 ohm
R356	24366562	CF, 5600 ohm
R356	24366823	CF, 82k ohm
R357	24366152	CF, 1500 ohm

Location No.	Part No.	Description
R357	24382114	OMF, 110k ohm, 1W
R358	24366682	CF, 6800 ohm
R359	24366103	CF, 10k ohm
R360	24366102	CF, 1k ohm
R361	24366113	CF, 11k ohm
R362	24366754	CF, 750k ohm
R363	24366103	CF, 10k ohm
R364	24366103	CF, 10k ohm
R365	24366103	CF, 10k ohm
R366	24366103	CF, 10k ohm
R367	24366752	CF, 7500 ohm
R368	24366183	CF, 18k ohm
R369	24366102	CF, 1k ohm
R370	24321159	MF, 1.5 ohm, 1/2W
R371	24366682	CF, 6800 ohm
R372	24366472	CF, 4700 ohm
R373	24366152	CF, 1500 ohm
R374	24366473	CF, 47k ohm
R375	24366102	CF, 1k ohm
R389	24366222	CF, 2200 ohm
R390	24382561	OMF, 560 ohm, 1W
R390	24366682	CF, 6800 ohm
R391	24366153	CF, 15k ohm
R391	24382561	OMF, 560 ohm, 1W
R392	24366822	CF, 8200 ohm
R392	24382561	OMF, 560 ohm, 1W
R400	24942102	CC, 1000pF, 1/2W
R401	24872391	Chip, 390 ohm, 1/16W
R402	24872103	Chip, 10k ohm, 1/16W
R403	24872392	Chip, 3900 ohm, 1/16W
R404	24383270	OMF, 27 ohm, 2W
R405	24382682	OMF, 6800 ohm, 1W
R407	24872103	Chip, 10k ohm, 1/16W
R408	24381103	OMF, 10k ohm, 1/2W
R409	24366103	CF, 10k ohm
R410	24366331	CF, 330 ohm
R411	24366471	CF, 470 ohm
R415	24553272	OMF, 2700 ohm, 1W
R416	24510562	Cement, 5600 ohm, 5W
R421	24872274	Chip, 270k ohm, 1/16W
R422	24872152	Chip, 1500 ohm, 1/16W
R423	24872152	Chip, 1500 ohm, 1/16W
R424	24546338	FR, 0.33 ohm, 1/2W
R425	24552331	OMF, 330 ohm, 1/2W
R426	24366821	CF, 820 ohm
R427	24366392	CF, 3900 ohm
R428	24366561	CF, 560 ohm
R429	24552330	OMF, 33 ohm, 1/2W
R431	24382100	OMF, 10 ohm, 1W
R432	24532560	FR, 56 ohm, 1W
R434	24366102	CF, 1k ohm
R435	24366333	CF, 33k ohm
R436	24327224	MF, 220k ohm, ±1%, 1/4W
R439	24366472	CF, 4700 ohm
R441	24383102	OMF, 1k ohm, 2W
R443	24310109	MF, 1.0 ohm, 1/2W
R444	24338398	MF, 0.39 ohm, 1W
R445	24382682	OMF, 6800 ohm, 1W
R446	24382682	OMF, 6800 ohm, 1W
R447	24382473	OMF, 47k ohm, 1W
R448	24338828	MF, 0.82 ohm, 1W
R450	24066879	VR, 1k ohm, 0.3W
R451	24376223	CF, 22k ohm, 1/2W
R452	24376223	CF, 22k ohm, 1/2W

Location No.	Part No.	Description
R453	24376223	CF, 22k ohm, 1/2W
R454	24366223	CF, 22k ohm
R455	24367333	CF, 33k ohm, ±2%
R460	24552332	OMF, 3300 ohm, 1/2W
R461	24366332	CF, 3300 ohm
R462	24366102	CF, 1k ohm
R463	24339109	MF, 1 ohm, 2W
R464	24366273	CF, 27k ohm
R465	24366114	CF, 110k ohm
R466	24366152	CF, 1500 ohm
R469	24000465	FR, 9.1 ohm, 1W
R472	24552270	OMF, 27 ohm, 1/2W
R477	24383121	OMF, 120 ohm, 2W
R478	24376333	CF, 33k ohm, 1/2W
R480	24553272	OMF, 2700 ohm, 1W
R481	24366473	CF, 47k ohm
R482	24366103	CF, 10k ohm
R483	24366154	CF, 150k ohm
R484	24366473	CF, 47k ohm
R485	24552221	OMF, 220 ohm, 1/2W
R487	24366472	CF, 4700 ohm
R488	24366474	CF, 470k ohm
R489	24366332	CF, 3300 ohm
R490	24366332	CF, 3300 ohm
R491	24366912	CF, 9100 ohm
R491	24366472	CF, 4700 ohm
R492	24366102	CF, 1k ohm
R493	24552472	OMF, 4700 ohm, 1/2W
R494	24366183	CF, 18k ohm
R495	24366472	CF, 4700 ohm
R496	24382114	OMF, 110k ohm, 1W
R497	24552201	OMF, 200 ohm, 1/2W
R498	24366473	CF, 47k ohm
R499	24366681	CF, 680 ohm
R501	24872223	Chip, 22k ohm, 1/16W
R502	24872101	Chip, 100 ohm, 1/16W
R503	24872101	Chip, 100 ohm, 1/16W
R505	24872102	Chip, 1k ohm, 1/16W
R506	24872103	Chip, 10k ohm, 1/16W
R508	24872102	Chip, 1k ohm, 1/16W
R509	24872102	Chip, 1k ohm, 1/16W
R510	24872472	Chip, 4700 ohm, 1/16W
R511	24872101	Chip, 100 ohm, 1/16W
R516	24872101	Chip, 100 ohm, 1/16W
R517	24872101	Chip, 100 ohm, 1/16W
R518	24872472	Chip, 4700 ohm, 1/16W
R519	24872101	Chip, 100 ohm, 1/16W
R520	24872103	Chip, 10k ohm, 1/16W
R521	24872223	Chip, 22k ohm, 1/16W
R522	24872473	Chip, 47k ohm, 1/16W
R532	24000824	Chip, Jumper, 2125 type
R533	24000824	Chip, Jumper, 2125 type
R534	24000824	Chip, Jumper, 2125 type
R601	24366392	CF, 3900 ohm
R602	24366392	CF, 3900 ohm
R603	24366272	CF, 2700 ohm
R604	24366272	CF, 2700 ohm
R605	24366229	CF, 2.2 ohm
R606	24366229	CF, 2.2 ohm
R607	24366103	CF, 10k ohm
R608	24366103	CF, 10k ohm
R612	24366103	CF, 10k ohm
R613	24366224	CF, 220k ohm
R635	24366224	CF, 220k ohm

Location No.	Part No.	Description
R636	24366104	CF, 100k ohm
R661	24366103	CF, 10k ohm
R670	24552182	OMF, 1800 ohm, 1/2W
R671	24366153	CF, 15k ohm
R672	24366153	CF, 15k ohm
R673	24366563	CF, 56k ohm
R674	24366563	CF, 56k ohm
R675	24366103	CF, 10k ohm
R676	24872223	Chip, 22k ohm, 1/16W
R677	24872223	Chip, 22k ohm, 1/16W
R677	24366104	CF, 100k ohm
R678	24872223	Chip, 22k ohm, 1/16W
R678	24366103	CF, 10k ohm
R679	24872223	Chip, 22k ohm, 1/16W
R679	24366103	CF, 10k ohm
R680	24872223	Chip, 22k ohm, 1/16W
R680	24366102	CF, 1k ohm
R681	24872223	Chip, 22k ohm, 1/16W
R682	24366473	CF, 47k ohm
R683	24366223	CF, 22k ohm
R684	24366223	CF, 22k ohm
R688	24366222	CF, 2200 ohm
R688	24552391	OMF, 390 ohm, 1/2W
R690	24872681	Chip, 680 ohm, 1/16W
R690	24552391	OMF, 390 ohm, 1/2W
R691	24872681	Chip, 680 ohm, 1/16W
R692	24872681	Chip, 680 ohm, 1/16W
R693	24872681	Chip, 680 ohm, 1/16W
R701	24872221	Chip, 220 ohm, 1/16W
R702	24872221	Chip, 220 ohm, 1/16W
R707	24872100	Chip, 10 ohm, 1/16W
R708	24872100	Chip, 10 ohm, 1/16W
R709	24872100	Chip, 10 ohm, 1/16W
R710	24872100	Chip, 10 ohm, 1/16W
R711	24872100	Chip, 10 ohm, 1/16W
R712	24872100	Chip, 10 ohm, 1/16W
R713	24872100	Chip, 10 ohm, 1/16W
R714	24872100	Chip, 10 ohm, 1/16W
R715	24872153	Chip, 15k ohm, 1/16W
R716	24872103	Chip, 10k ohm, 1/16W
R717	24872622	Chip, 6200 ohm, 1/16W
R718	24872152	Chip, 1500 ohm, 1/16W
R720	24872103	Chip, 10k ohm, 1/16W
R721	24872223	Chip, 22k ohm, 1/16W
R722	24872222	Chip, 2200 ohm, 1/16W
R725	24872754	Chip, 750k ohm, 1/16W
R727	24871221	Chip, 220 ohm, 1/8W
R728	24872393	Chip, 39k ohm, 1/16W
R729	24872153	Chip, 15k ohm, 1/16W
R735	24872911	Chip, 910 ohm, 1/16W
R736	24872911	Chip, 910 ohm, 1/16W
R737	24872152	Chip, 1500 ohm, 1/16W
R738	24872332	Chip, 3300 ohm, 1/16W
R739	24872362	Chip, 3600 ohm, 1/16W
R740	24872911	Chip, 910 ohm, 1/16W
R741	24872911	Chip, 910 ohm, 1/16W
R742	24872152	Chip, 1500 ohm, 1/16W
R743	24872332	Chip, 3300 ohm, 1/16W
R744	24872362	Chip, 3600 ohm, 1/16W
R745	24872911	Chip, 910 ohm, 1/16W
R746	24872911	Chip, 910 ohm, 1/16W
R747	24872152	Chip, 1500 ohm, 1/16W
R748	24872332	Chip, 3300 ohm, 1/16W
R749	24872362	Chip, 3600 ohm, 1/16W

Location No.	Part No.	Description
R750	24872911	Chip, 910 ohm, 1/16W
R751	24872911	Chip, 910 ohm, 1/16W
R752	24872152	Chip, 1500 ohm, 1/16W
R753	24872332	Chip, 3300 ohm, 1/16W
R754	24872362	Chip, 3600 ohm, 1/16W
R755	24872911	Chip, 910 ohm, 1/16W
R756	24872911	Chip, 910 ohm, 1/16W
R757	24872152	Chip, 1500 ohm, 1/16W
R758	24872332	Chip, 3300 ohm, 1/16W
R759	24872362	Chip, 3600 ohm, 1/16W
R760	24872911	Chip, 910 ohm, 1/16W
R761	24872911	Chip, 910 ohm, 1/16W
R762	24872152	Chip, 1500 ohm, 1/16W
R763	24872332	Chip, 3300 ohm, 1/16W
R764	24872362	Chip, 3600 ohm, 1/16W
R778	24872101	Chip, 100 ohm, 1/16W
R779	24872101	Chip, 100 ohm, 1/16W
R780	24872101	Chip, 100 ohm, 1/16W
R781	24872101	Chip, 100 ohm, 1/16W
R782	24872101	Chip, 100 ohm, 1/16W
R783	24872101	Chip, 100 ohm, 1/16W
R784	24872472	Chip, 4700 ohm, 1/16W
R785	24872472	Chip, 4700 ohm, 1/16W
R786	24872472	Chip, 4700 ohm, 1/16W
R787	24872472	Chip, 4700 ohm, 1/16W
R801	24366473	CF, 47k ohm
R803	24366103	CF, 10k ohm
R804	24545109	FR, 1 ohm, 1/4W
R805	24366101	CF, 100 ohm
R806	24366101	CF, 100 ohm
R807	24366273	CF, 27k ohm
R808	24552470	OMF, 47 ohm, 1/2W
R809	24552330	OMF, 33 ohm, 1/2W
R810	24383220	OMF, 22 ohm, 2W
R811	24552121	OMF, 120 ohm, 1/2W
R812	24552390	OMF, 39 ohm, 1/2W
R814	24552821	OMF, 820 ohm, 1/2W
R816	24384223	OMF, 22k ohm, 3W
⚠R819	24009954	Metal-Glazed Resistor, 2.2M ohm, 1/2W
R820	24007061	Cement, 1.8 ohm, ±10%, 2W
R821	24510479	Cement, 4.7 ohm, 5W
R822	24366222	CF, 2200 ohm
R823	24554470	OMF, 47 ohm, 2W
R851	24545109	FR, 1 ohm, 1/4W
R852	24366272	CF, 2700 ohm
R853	24338568	MF, 0.56 ohm, 1W
R854	24553121	OMF, 120 ohm, 1W
R855	24553271	OMF, 270 ohm, 1W
R856	24366152	CF, 1500 ohm
R857	24381682	OMF, 6800 ohm, 1/2W
R858	24366102	CF, 1k ohm
R859	24382333	OMF, 33k ohm, 1W
R860	24366102	CF, 1k ohm
⚠R861	24005015	Metal-Glazed Resistor, 8.2M ohm, 1W
R862	24366223	CF, 22k ohm
R863	24366101	CF, 100 ohm
R901	24366101	CF, 100 ohm
R903	24942102	CC, 1000pF, 1/2W
R904	24366102	CF, 1k ohm
R905	24366910	CF, 91 ohm
R906	24366471	CF, 470 ohm
R908	24366430	CF, 43 ohm

Location No.	Part No.	Description
R909	24366121	CF, 120 ohm
R911	24366101	CF, 100 ohm
R913	24942102	CC, 1000pF, 1/2W
R914	24366102	CF, 1k ohm
R915	24366820	CF, 82 ohm
R916	24366471	CF, 470 ohm
R918	24366430	CF, 43 ohm
R921	24366101	CF, 100 ohm
R923	24942102	CC, 1000pF, 1/2W
R924	24366102	CF, 1k ohm
R925	24366121	CF, 120 ohm
R926	24366471	CF, 470 ohm
R928	24366430	CF, 43 ohm
R931	24555153	OMF, 15k ohm, 3W
R932	24555153	OMF, 15k ohm, 3W
R933	24000929	FR, 1.5 ohm, 2W
R935	24366150	CF, 15 ohm
R936	24366330	CF, 33 ohm
R938	24366471	CF, 470 ohm
R940	24366331	CF, 330 ohm
R941	24555153	OMF, 15k ohm, 3W
R942	24555153	OMF, 15k ohm, 3W
R943	24366103	CF, 10k ohm
R944	24366150	CF, 15 ohm
R945	24366680	CF, 68 ohm
R946	24366330	CF, 33 ohm
R947	24366561	CF, 560 ohm
R949	24366910	CF, 91 ohm
R951	24555153	OMF, 15k ohm, 3W
R952	24555153	OMF, 15k ohm, 3W
R953	24366910	CF, 91 ohm
R956	24366271	CF, 270 ohm
R957	24366330	CF, 33 ohm
R961	24366821	CF, 820 ohm
R962	24366391	CF, 390 ohm
R963	24366222	CF, 2200 ohm
R964	24366332	CF, 3300 ohm
R965	24366471	CF, 470 ohm
R966	24366821	CF, 820 ohm
R967	24366122	CF, 1200 ohm
R968	24366680	CF, 68 ohm
R969	24366103	CF, 10k ohm
R970	24366222	CF, 2200 ohm
R971	24367152	CF, 1500 ohm, ±2%
R972	24367471	CF, 470 ohm, ±2%
R973	24367681	CF, 680 ohm, ±2%
R974	24367681	CF, 680 ohm, ±2%
R975	24366242	CF, 2400 ohm
R976	24367562	CF, 5600 ohm, ±2%
R977	24367682	CF, 560 ohm, ±2%
R978	24367681	CF, 680 ohm, ±2%
R993	24366222	CF, 2200 ohm
R994	24366272	CF, 2700 ohm
R995	24366102	CF, 1k ohm
R996	24366103	CF, 10k ohm
R997	24366272	CF, 2700 ohm
R998	24366102	CF, 1k ohm
R999	24366102	CF, 1k ohm
R6101	24366473	CF, 47k ohm
R6102	24366103	CF, 10k ohm
R6103	24366331	CF, 330 ohm
R7702	24366473	CF, 47k ohm
R7703	24366473	CF, 47k ohm
R7704	24366103	CF, 10k ohm

Location No.	Part No.	Description
R7705	24366472	CF, 4700 ohm
R7706	24366222	CF, 2200 ohm
R7707	24366472	CF, 4700 ohm
R7708	24366472	CF, 4700 ohm
R7710	24384680	OMF, 68 ohm, 3W
R7711	24323229	MF, 2.2 ohm, 2W
R7712	24366472	CF, 4700 ohm
R7713	24366472	CF, 4700 ohm
R7715	24384680	OMF, 68 ohm, 3W
R7716	24323229	MF, 2.2 ohm, 2W
R7717	24366472	CF, 4700 ohm
R7718	24366472	CF, 4700 ohm
R7720	24384680	OMF, 68 ohm, 3W
R7721	24323229	MF, 2.2 ohm, 2W
R7722	24366472	CF, 4700 ohm
R7723	24366472	CF, 4700 ohm
R7725	24384680	OMF, 68 ohm, 3W
R7726	24323229	MF, 2.2 ohm, 2W
R7727	24366472	CF, 4700 ohm
R7728	24366472	CF, 4700 ohm
R7730	24384680	OMF, 68 ohm, 3W
R7731	24323229	MF, 2.2 ohm, 2W
R7732	24366472	CF, 4700 ohm
R7733	24366472	CF, 4700 ohm
R7735	24384680	OMF, 68 ohm, 3W
R7736	24323229	MF, 2.2 ohm, 2W
R7738	24383101	OMF, 100 ohm, 2W
R7741	24366471	CF, 470 ohm
R7742	24366472	CF, 4700 ohm
R7743	24366223	CF, 22k ohm
R7744	24366102	CF, 1k ohm
R7745	24366222	CF, 2200 ohm
R7746	24366223	CF, 22k ohm
R7747	24366222	CF, 2200 ohm
R7749	24366331	CF, 330 ohm
R7750	24323278	MF, 0.27 ohm, 2W
R7751	24366471	CF, 470 ohm
R7752	24366101	CF, 100 ohm
R7753	24366101	CF, 100 ohm
R7754	24366101	CF, 100 ohm
R7755	24366102	CF, 1k ohm
R7757	24366223	CF, 22k ohm
R7758	24366222	CF, 2200 ohm
R7763	24366471	CF, 470 ohm
R7764	24366331	CF, 330 ohm
R7765	24339398	MF, 0.39 ohm, 2W
R7766	24366223	CF, 22k ohm
R7767	24366223	CF, 22k ohm
R7768	24366102	CF, 1k ohm
R7771	24366102	CF, 1k ohm
R7772	24366102	CF, 1k ohm
R7774	24383151	OMF, 150 ohm, 2W
R7775	24366273	CF, 27k ohm
R7776	24366472	CF, 4700 ohm
R7777	24366273	CF, 27k ohm
R7778	24366472	CF, 4700 ohm
R7779	24366102	CF, 1k ohm
R7780	24366102	CF, 1k ohm
R7781	24366333	CF, 33k ohm
R7782	24339828	OMF, 0.82 ohm, 2W
R7783	24366331	CF, 330 ohm
R7784	24366471	CF, 470 ohm
R7785	24366222	CF, 2200 ohm
R7786	24366103	CF, 10k ohm

Location No.	Part No.	Description
R7787	24366104	CF, 100k ohm
R7788	24366103	CF, 10k ohm
R7789	24366471	CF, 470 ohm
R7790	24552182	OMF, 1800 ohm, 1/2W
R7791	24552681	OMF, 680 ohm, 1/2W
R7792	24366471	CF, 470 ohm
R7793	24552182	OMF, 1800 ohm, 1/2W
R7794	24366223	CF, 22k ohm
R8301	24366472	CF, 4700 ohm
R8302	24366274	CF, 270k ohm
R9601	24366821	CF, 820 ohm
R9602	24366562	CF, 5600 ohm
R9603	24366392	CF, 3900 ohm
R9604	24366272	CF, 2700 ohm
R9605	24366103	CF, 10k ohm
R9606	24366392	CF, 3900 ohm
R9613	24366151	CF, 150 ohm
R9614	24366151	CF, 150 ohm
R9615	24366101	CF, 100 ohm
R9616	24366102	CF, 1k ohm
R9617	24366151	CF, 150 ohm
R9702	24366102	CF, 1k ohm
R9703	24366822	CF, 8200 ohm
R9704	24366103	CF, 10k ohm
R9705	24366103	CF, 10k ohm
R9706	24366271	CF, 270 ohm
R9707	24366271	CF, 270 ohm
R9708	24366272	CF, 2700 ohm
RA01	24366102	CF, 1k ohm
RA02	24366102	CF, 1k ohm
RA03	24366102	CF, 1k ohm
RA04	24366102	CF, 1k ohm
RA06	24366102	CF, 1k ohm
RA07	24366102	CF, 1k ohm
RA08	24366102	CF, 1k ohm
RA09	24366102	CF, 1k ohm
RA10	24366102	CF, 1k ohm
RA11	24366102	CF, 1k ohm
RA12	24366102	CF, 1k ohm
RA13	24366102	CF, 1k ohm
RA14	24366102	CF, 1k ohm
RA15	24366103	CF, 10k ohm
RA19	24366331	CF, 330 ohm
RA20	24366102	CF, 1k ohm
RA21	24366102	CF, 1k ohm
RA22	24366102	CF, 1k ohm
RA24	24366153	CF, 15k ohm
RA29	24366331	CF, 330 ohm
RA31	24366103	CF, 10k ohm
RA32	24366103	CF, 10k ohm
RA34	24366102	CF, 1k ohm
RA36	24366102	CF, 1k ohm
RA37	24366102	CF, 1k ohm
RA53	24366101	CF, 100 ohm
RA55	24366101	CF, 100 ohm
RA57	24366101	CF, 100 ohm
RA59	24366102	CF, 1k ohm
RA61	24366102	CF, 1k ohm
RA70	24366333	CF, 33k ohm
RA71	24366683	CF, 68k ohm
RA71	24366103	CF, 10k ohm
RA72	24366103	CF, 10k ohm
RA72	24366223	CF, 22k ohm
RA73	24366103	CF, 10k ohm

Location No.	Part No.	Description
RA75	24366333	CF, 33k ohm
RA76	24366103	CF, 10k ohm
RA77	24366223	CF, 22k ohm
RA78	24366683	CF, 68k ohm
RA91	24366103	CF, 10k ohm
RA92	24366472	CF, 4700 ohm
RA93	24366103	CF, 10k ohm
RA94	24366103	CF, 10k ohm
RA95	24366103	CF, 10k ohm
RA101	24366102	CF, 1k ohm
RA102	24366473	CF, 47k ohm
RA104	24366682	CF, 6800 ohm
RA105	24366103	CF, 10k ohm
RA106	24366682	CF, 6800 ohm
RA120	24366472	CF, 4700 ohm
RA140	24366153	CF, 15k ohm
RA150	24366103	CF, 10k ohm
RA310	24366101	CF, 100 ohm
RA410	24366273	CF, 27k ohm
RB01	24366271	CF, 270 ohm
RB02	24366221	CF, 220 ohm
RB03	24366101	CF, 100 ohm
RB04	24366223	CF, 22k ohm
RB05	24366471	CF, 470 ohm
RB09	24366470	CF, 47 ohm
RB11	24366103	CF, 10k ohm
RB40	24366103	CF, 10k ohm
RB43	24366822	CF, 8200 ohm
RB44	24366103	CF, 10k ohm
RB45	24366101	CF, 100 ohm
RB81	24366122	CF, 1200 ohm
RB82	24366123	CF, 12k ohm
RB83	24366123	CF, 12k ohm
RB84	24366562	CF, 5600 ohm
RB90	24366392	CF, 3900 ohm
RB91	24366473	CF, 47k ohm
RB92	24366271	CF, 270 ohm
RB93	24366271	CF, 270 ohm
RB94	24366222	CF, 2200 ohm
RB95	24366222	CF, 2200 ohm
RB96	24366273	CF, 27k ohm
RB97	24366273	CF, 27k ohm
RB98	24366102	CF, 1k ohm
RF01	24872332	Chip, 3300 ohm, 1/16W
RF03	24872682	Chip, 6800 ohm, 1/16W
RF04	24872223	Chip, 22k ohm, 1/16W
RF06	24872102	Chip, 1k ohm, 1/16W
RF08	24872100	Chip, 10 ohm, 1/16W
RF09	24872100	Chip, 10 ohm, 1/16W
RF10	24872100	Chip, 10 ohm, 1/16W
RF11	24872103	Chip, 10k ohm, 1/16W
RF12	24872101	Chip, 100 ohm, 1/16W
RF13	24872101	Chip, 100 ohm, 1/16W
RF14	24872101	Chip, 100 ohm, 1/16W
RF15	24872103	Chip, 10k ohm, 1/16W
RF16	24872471	Chip, 470 ohm, 1/16W
RF20	24872472	Chip, 4700 ohm, 1/16W
RF21	24000824	Chip, Jumper, 2125 type
RF22	24872102	Chip, 1k ohm, 1/16W
RF24	24872102	Chip, 1k ohm, 1/16W
RF26	24872102	Chip, 1k ohm, 1/16W
RF27	24872103	Chip, 10k ohm, 1/16W
RF28	24872102	Chip, 1k ohm, 1/16W
RF29	24872103	Chip, 10k ohm, 1/16W

Location No.	Part No.	Description
RF30	24872103	Chip, 10k ohm, 1/16W
RF38	24872153	Chip, 15k ohm, 1/16W
RF39	24872472	Chip, 4700 ohm, 1/16W
RJ02	24872101	Chip, 100 ohm, 1/16W
RQ01	24872102	Chip, 1k ohm, 1/16W
RQ03	24872102	Chip, 1k ohm, 1/16W
RQ04	24872511	Chip, 510 ohm, 1/16W
RQ05	24872471	Chip, 470 ohm, 1/16W
RQ06	24872471	Chip, 470 ohm, 1/16W
RQ07	24872103	Chip, 10k ohm, 1/16W
RQ08	24872102	Chip, 1k ohm, 1/16W
RQ09	24872102	Chip, 1k ohm, 1/16W
RQ10	24872102	Chip, 1k ohm, 1/16W
RQ11	24872561	Chip, 560 ohm, 1/16W
RQ12	24872561	Chip, 560 ohm, 1/16W
RQ13	24872203	Chip, 20k ohm, 1/16W
RQ14	24872273	Chip, 27k ohm, 1/16W
RQ20	24872563	Chip, 56k ohm, 1/16W
RR01	24366102	CF, 1k ohm
RR02	24366104	CF, 100k ohm
RR03	24366222	CF, 2200 ohm
RR04	24872102	Chip, 1k ohm, 1/16W
RR04	24366101	CF, 100 ohm
RR05	24366102	CF, 1k ohm
RR05	24872102	Chip, 1k ohm, 1/16W
RR06	24366223	CF, 22k ohm
RR06	24000824	Chip, Jumper, 2125 type
RR07	24000824	Chip, Jumper, 2125 type
RR07	24366471	CF, 470 ohm
RR08	24366332	CF, 3300 ohm
RR09	24000824	Chip, Jumper, 2125 type
RR09	24366222	CF, 2200 ohm
RR10	24872103	Chip, 10k ohm, 1/16W
RR10	24366102	CF, 1k ohm
RR11	24366152	CF, 1500 ohm
RR11	24872473	Chip, 47k ohm, 1/16W
RR12	24366471	CF, 470 ohm
RR12	24872102	Chip, 1k ohm, 1/16W
RR13	24872622	Chip, 6200 ohm, 1/16W
RR13	24366471	CF, 470 ohm
RR15	24000824	Chip, Jumper, 2125 type
RR15	24366391	CF, 390 ohm
RR16	24366391	CF, 390 ohm
RR16	24000824	Chip, Jumper, 2125 type
RR17	24366391	CF, 390 ohm
RR17	24000824	Chip, Jumper, 2125 type
RR18	24000824	Chip, Jumper, 2125 type
RR20	24872103	Chip, 10k ohm, 1/16W
RR22	24366103	CF, 10k ohm
RR23	24366103	CF, 10k ohm
RR24	24000824	Chip, Jumper, 2125 type
RR25	24872102	Chip, 1k ohm, 1/16W
RR28	24872473	Chip, 47k ohm, 1/16W
RR29	24872473	Chip, 47k ohm, 1/16W
RR31	24366331	CF, 330 ohm
RR32	24366331	CF, 330 ohm
RR32	24872181	Chip, 180 ohm, 1/16W
RR33	24366331	CF, 330 ohm
RR33	24872181	Chip, 180 ohm, 1/16W
RR34	24872181	Chip, 180 ohm, 1/16W
RR34	24366102	CF, 1k ohm
RR35	24366122	CF, 1200 ohm
RR36	24366122	CF, 1200 ohm
RR37	24366122	CF, 1200 ohm

Location No.	Part No.	Description
RR40	24366102	CF, 1k ohm
RR41	24366332	CF, 3300 ohm
RR48	24366222	CF, 2200 ohm
RR62	24366102	CF, 1k ohm
RR63	24366332	CF, 3300 ohm
RR64	24366102	CF, 1k ohm
RR65	24366102	CF, 1k ohm
RR66	24366101	CF, 100 ohm
RR67	24366221	CF, 220 ohm
RR68	24366332	CF, 3300 ohm
RR69	24366102	CF, 1k ohm
RR70	24366102	CF, 1k ohm
RR71	24366332	CF, 3300 ohm
RR72	24366332	CF, 3300 ohm
RR73	24366332	CF, 3300 ohm
RR81	24366221	CF, 220 ohm
RR82	24366101	CF, 100 ohm
RR83	24366221	CF, 220 ohm
RR84	24366101	CF, 100 ohm
RR85	24366102	CF, 1k ohm
RR86	24366102	CF, 1k ohm
RR87	24366332	CF, 3300 ohm
RR88	24366101	CF, 100 ohm
RS01	24872681	Chip, 680 ohm, 1/16W
RS02	24872681	Chip, 680 ohm, 1/16W
RS03	24872101	Chip, 100 ohm, 1/16W
RS04	24872101	Chip, 100 ohm, 1/16W
RS05	24872472	Chip, 4700 ohm, 1/16W
RS06	24872472	Chip, 4700 ohm, 1/16W
RS07	24872472	Chip, 4700 ohm, 1/16W
RS08	24872472	Chip, 4700 ohm, 1/16W
RS09	24872472	Chip, 4700 ohm, 1/16W
RS10	24872472	Chip, 4700 ohm, 1/16W
RS13	24872101	Chip, 100 ohm, 1/16W
RS14	24872101	Chip, 100 ohm, 1/16W
RS15	24872104	Chip, 100k ohm, 1/16W
RS16	24872104	Chip, 100k ohm, 1/16W
RS17	24872223	Chip, 22k ohm, 1/16W
RS18	24872223	Chip, 22k ohm, 1/16W
RS19	24872102	Chip, 1k ohm, 1/16W
RS20	24872102	Chip, 1k ohm, 1/16W
RS21	24872222	Chip, 2200 ohm, 1/16W
RS22	24872222	Chip, 2200 ohm, 1/16W
RS23	24872101	Chip, 100 ohm, 1/16W
RS24	24872101	Chip, 100 ohm, 1/16W
RS27	24872104	Chip, 100k ohm, 1/16W
RS28	24872104	Chip, 100k ohm, 1/16W
RS29	24872223	Chip, 22k ohm, 1/16W
RS30	24872223	Chip, 22k ohm, 1/16W
RS31	24872103	Chip, 10k ohm, 1/16W
RS32	24872104	Chip, 100k ohm, 1/16W
RS35	24872223	Chip, 22k ohm, 1/16W
RS36	24872223	Chip, 22k ohm, 1/16W
RS37	24872104	Chip, 100k ohm, 1/16W
RS38	24872104	Chip, 100k ohm, 1/16W
RS43	24872681	Chip, 680 ohm, 1/16W
RS44	24872681	Chip, 680 ohm, 1/16W
RS45	24872681	Chip, 680 ohm, 1/16W
RS46	24872681	Chip, 680 ohm, 1/16W
RS56	24872102	Chip, 1k ohm, 1/16W
RS57	24872223	Chip, 22k ohm, 1/16W
RS58	24872104	Chip, 100k ohm, 1/16W
RS59	24872681	Chip, 680 ohm, 1/16W
RS60	24872102	Chip, 1k ohm, 1/16W

Location No.	Part No.	Description
RV01	24872101	Chip, 100 ohm, 1/16W
RV02	24872101	Chip, 100 ohm, 1/16W
RV03	24872101	Chip, 100 ohm, 1/16W
RV04	24872101	Chip, 100 ohm, 1/16W
RV05	24872101	Chip, 100 ohm, 1/16W
RV06	24872101	Chip, 100 ohm, 1/16W
RV07	24872162	Chip, 1600 ohm, 1/16W
RV08	24872162	Chip, 1600 ohm, 1/16W
RV09	24872101	Chip, 100 ohm, 1/16W
RV10	24872101	Chip, 100 ohm, 1/16W
RV12	24872681	Chip, 680 ohm, 1/16W
RV13	24872681	Chip, 680 ohm, 1/16W
RV16	24872271	Chip, 270 ohm, 1/16W
RV18	24872123	Chip, 12k ohm, 1/16W
RV19	24872101	Chip, 100 ohm, 1/16W
RV20	24872101	Chip, 100 ohm, 1/16W
RV21	24872151	Chip, 150 ohm, 1/16W
RV23	24552101	OMF, 100 ohm, 1/2W
RV25	24872101	Chip, 100 ohm, 1/16W
RV26	24366181	CF, 180 ohm
RV27	24872750	Chip, 75 ohm, 1/16W
RV28	24872683	Chip, 68k ohm, 1/16W
RV29	24872273	Chip, 27k ohm, 1/16W
RV30	24872750	Chip, 75 ohm, 1/16W
RV31	24872750	Chip, 75 ohm, 1/16W
RV32	24872750	Chip, 75 ohm, 1/16W
RV33	24872123	Chip, 12k ohm, 1/16W
RV34	24872123	Chip, 12k ohm, 1/16W
RV35	24872103	Chip, 10k ohm, 1/16W
RV36	24872101	Chip, 100 ohm, 1/16W
RV37	24872750	Chip, 75 ohm, 1/16W
RV60	24872102	Chip, 1k ohm, 1/16W
RV60	24366681	CF, 680 ohm
RV61	24366681	CF, 680 ohm
RV61	24552101	OMF, 100 ohm, 1/2W
RV62	24872101	Chip, 100 ohm, 1/16W
RV63	24552151	OMF, 150 ohm, 1/2W
RV64	24872750	Chip, 75 ohm, 1/16W
RV65	24552101	OMF, 100 ohm, 1/2W
RV66	24872101	Chip, 100 ohm, 1/16W
RV67	24552151	OMF, 150 ohm, 1/2W
RV68	24872750	Chip, 75 ohm, 1/16W
RV70	24872101	Chip, 100 ohm, 1/16W
RV71	24872472	Chip, 4700 ohm, 1/16W
RV73	24872103	Chip, 10k ohm, 1/16W
RV74	24872104	Chip, 100k ohm, 1/16W
RV78	24872100	Chip, 10 ohm, 1/16W
RV79	24872102	Chip, 1k ohm, 1/16W
RV80	24872271	Chip, 270 ohm, 1/16W
RV81	24872750	Chip, 75 ohm, 1/16W
RV82	24872101	Chip, 100 ohm, 1/16W
RV85	24872750	Chip, 75 ohm, 1/16W
RV86	24872750	Chip, 75 ohm, 1/16W
RV87	24872750	Chip, 75 ohm, 1/16W
RV89	24872750	Chip, 75 ohm, 1/16W
RV90	24872681	Chip, 680 ohm, 1/16W
RV91	24872681	Chip, 680 ohm, 1/16W
RV92	24872100	Chip, 10 ohm, 1/16W
RV93	24872104	Chip, 100k ohm, 1/16W
RV94	24872103	Chip, 10k ohm, 1/16W
RV95	24872472	Chip, 4700 ohm, 1/16W
RV97	24872101	Chip, 100 ohm, 1/16W
RV800	24366100	CF, 10 ohm
RV801	24366222	CF, 2200 ohm

Location No.	Part No.	Description
RW02	24366821	CF, 820 ohm
RW09	24366563	CF, 56k ohm
RW13	24366393	CF, 39k ohm
RW14	24552121	OMF, 120 ohm, 1/2W
RW15	24366223	CF, 22k ohm
RW16	24366273	CF, 27k ohm
RW17	24366333	CF, 33k ohm
RW18	24366101	CF, 100 ohm
RW19	24366100	CF, 10 ohm
RW20	24366392	CF, 3900 ohm
RW22	24366102	CF, 1k ohm
RW23	24366471	CF, 470 ohm
RW24	24366470	CF, 47 ohm
RW25	24366182	CF, 1800 ohm
RW30	24552100	OMF, 10 ohm, 1/2W
RW31	24552331	OMF, 330 ohm, 1/2W
RW32	24366820	CF, 82 ohm
RW33	24366683	CF, 68k ohm
RW34	24366820	CF, 82 ohm
RW35	24366683	CF, 68k ohm
RW36	24366620	CF, 62 ohm
RW37	24366152	CF, 1500 ohm
RW38	24366102	CF, 1k ohm
RW39	24366152	CF, 1500 ohm
RW40	24366620	CF, 62 ohm
RW41	24366279	CF, 2.7 ohm
RW42	24366279	CF, 2.7 ohm
RW43	24554221	OMF, 220 ohm, 2W
RW44	24366122	CF, 1200 ohm
RW45	24366122	CF, 1200 ohm
RZ01	24872102	Chip, 1k ohm, 1/16W
RZ02	24872102	Chip, 1k ohm, 1/16W
RZ03	24872332	Chip, 3300 ohm, 1/16W
RZ04	24872102	Chip, 1k ohm, 1/16W
RZ05	24872221	Chip, 220 ohm, 1/16W
RZ06	24872821	Chip, 820 ohm, 1/16W
RZ07	24872101	Chip, 100 ohm, 1/16W
RZ08	24872471	Chip, 470 ohm, 1/16W
RZ09	24872101	Chip, 100 ohm, 1/16W
RZ10	24872222	Chip, 2200 ohm, 1/16W
RZ11	24872101	Chip, 100 ohm, 1/16W
RZ12	24872102	Chip, 1k ohm, 1/16W
RZ13	24872102	Chip, 1k ohm, 1/16W
RZ14	24872102	Chip, 1k ohm, 1/16W
RZ14	24872102	Chip, 1k ohm, 1/16W
RZ15	24872102	Chip, 1k ohm, 1/16W
RZ15	24872102	Chip, 1k ohm, 1/16W
RZ17	24872221	Chip, 220 ohm, 1/16W
RZ17	24872221	Chip, 220 ohm, 1/16W
RZ18	24872471	Chip, 470 ohm, 1/16W
RZ18	24872471	Chip, 470 ohm, 1/16W
RZ19	24872102	Chip, 1k ohm, 1/16W
RZ20	24872101	Chip, 100 ohm, 1/16W
RZ22	24872222	Chip, 2200 ohm, 1/16W
RZ29	24872331	Chip, 330 ohm, 1/16W
RZ30	24872331	Chip, 330 ohm, 1/16W

COILS & TRANSFORMERS

L101	23221803	Coil, Choke, TLN3040D
L200	23289479	Coil, Peaking, TRF44R7AF
L201	23289100	Coil, Peaking, TRF4100AF
L301	23103859	Coil (Ferrite Bead), TEM2011
L303	23237975	Coil, Peaking, TRF4101AC
L333	23238702	Coil, Peaking, TRF4101AJ

Location No.	Part No.	Description
L400	23289101	Coil, Peaking, TRF4101AF
L441	23233977	Coil, Linearity, TLN2203AG
L441A	23960136	Adhesive, TSE3843-W
L442	23248186	Coil, Choke, TLN3346AD
L461	23248115	Coil, Choke, TLN3367D
L462	23231135	Deflection Yoke, TDY707AS(R)
L463	23231135	Deflection Yoke, TDY707AS(R)
L464	23231135	Deflection Yoke, TDY707AS(R)
L465	23103880	Coil (Ferrite Bead), TEM2011Y
L472	23102441	Magnet, MAG1094
L473	23102441	Magnet, MAG1094
L474	23102441	Magnet, MAG1094
L501	23289100	Coil, Peaking, TRF4100AF
L503	23289470	Coil, Peaking, TRF4470AF
L510	23238718	Coil, Peaking, TRF4479AJ
L512	23103845	Filter, TEM2030AY
L513	23103845	Filter, TEM2030AY
L602	23238714	Coil, Peaking, TRF4100AJ
L603	23238714	Coil, Peaking, TRF4100AJ
L605	23238562	Coil, Peaking, TRF4109AJ
L606	23103845	Filter, TEM2030AY
L676	23103832	Chip (Ferrite Bead), TEM2125M
L677	23103832	Chip (Ferrite Bead), TEM2125M
L682	23103832	Chip (Ferrite Bead), TEM2125M
L683	23103832	Chip (Ferrite Bead), TEM2125M
L684	23289109	Coil, Peaking, TRF41R0AF
L685	23289109	Coil, Peaking, TRF41R0AF
L701	23238562	Coil, Peaking, TRF4109AJ
L702	23238562	Coil, Peaking, TRF4109AJ
L707	23238562	Coil, Peaking, TRF4109AJ
L708	23238562	Coil, Peaking, TRF4109AJ
L709	23238562	Coil, Peaking, TRF4109AJ
L710	23238562	Coil, Peaking, TRF4109AJ
L711	23238562	Coil, Peaking, TRF4109AJ
L712	23238562	Coil, Peaking, TRF4109AJ
L713	23238562	Coil, Peaking, TRF4109AJ
L714	23238562	Coil, Peaking, TRF4109AJ
L719	23232878	Coil, Variable, TRF3503K
L720	23289102	Coil, Peaking, TRF4102AJ
L721	23237805	Coil, Peaking, TRF4222
L722	23289102	Coil, Peaking, TRF4102AJ
L723	23237805	Coil, Peaking, TRF4222
L724	23289102	Coil, Peaking, TRF4102AJ
L725	23237805	Coil, Peaking, TRF4222
L726	23289102	Coil, Peaking, TRF4102AJ
L727	23237805	Coil, Peaking, TRF4222
L728	23289102	Coil, Peaking, TRF4102AJ
L729	23237805	Coil, Peaking, TRF4222
L730	23289102	Coil, Peaking, TRF4102AJ
L731	23237805	Coil, Peaking, TRF4222
L737	23289560	Coil, Peaking, TRF4560
L738	23289560	Coil, Peaking, TRF4560
L739	23289560	Coil, Peaking, TRF4560
L740	23289560	Coil, Peaking, TRF4560
L742	23103866	Chip (Ferrite Bead), TEM2105T
L743	23103866	Chip (Ferrite Bead), TEM2105T
L744	23103866	Chip (Ferrite Bead), TEM2105T
L745	23103866	Chip (Ferrite Bead), TEM2105T
L746	23103866	Chip (Ferrite Bead), TEM2105T
L747	23103866	Chip (Ferrite Bead), TEM2105T

Location No.	Part No.	Description
L748	23103866	Chip (Ferrite Bead), TEM2105T
L749	23103866	Chip (Ferrite Bead), TEM2105T
L801	23248213	Coil, Choke, TLN3481AH
L802	23248213	Coil, Choke, TLN3481AH
L803	23103859	Coil (Ferrite Bead), TEM2011
L804	23103859	Coil (Ferrite Bead), TEM2011
L853	23248035	Coil, Choke, TLN3278D
L854	23248073	Coil, Choke, TLN3299D
L855	23248073	Coil, Choke, TLN3299D
L856	23248073	Coil, Choke, TLN3299D
L857	23248073	Coil, Choke, TLN3299D
L858	23103859	Coil (Ferrite Bead), TEM2011
L859	23103859	Coil (Ferrite Bead), TEM2011
L860	23280022	Coil, Peaking, TRF4101AZ
L861	23103859	Coil (Ferrite Bead), TEM2011
L862	23248073	Coil, Choke, TLN3299D
L863	23103859	Coil (Ferrite Bead), TEM2011
L864	23103859	Coil (Ferrite Bead), TEM2011
L865	23103859	Coil (Ferrite Bead), TEM2011
L866	23248073	Coil, Choke, TLN3299D
L867	70211045	Coil, Choke, 0.02mH
L868	23103859	Coil (Ferrite Bead), TEM2011
L869	23103859	Coil (Ferrite Bead), TEM2011
L870	23248073	Coil, Choke, TLN3299D
L871	23248073	Coil, Choke, TLN3299D
L872	23248035	Coil, Choke, TLN3278D
L911	23237987	Coil, Peaking, TRF4100AC
L961	23289100	Coil, Peaking, TRF4100AF
L962	23237991	Coil, Peaking, TRF4479AC
L963	23237975	Coil, Peaking, TRF4101AC
L6101	23103859	Coil (Ferrite Bead), TEM2011
L7701	23103859	Coil (Ferrite Bead), TEM2011
L7702	23103859	Coil (Ferrite Bead), TEM2011
L7703	23103859	Coil (Ferrite Bead), TEM2011
L7704	23103859	Coil (Ferrite Bead), TEM2011
L7705	23103859	Coil (Ferrite Bead), TEM2011
L7706	23103859	Coil (Ferrite Bead), TEM2011
LA01	23289100	Coil, Peaking, TRF4100AF
LB01	23262261	Coil, IF, TRF1177D
LC05	23238562	Coil, Peaking, TRF4109AJ
LC06	23103859	Coil (Ferrite Bead), TEM2011
LC07	23238562	Coil, Peaking, TRF4109AJ
LC08	23238562	Coil, Peaking, TRF4109AJ
LC26	23238562	Coil, Peaking, TRF4109AJ
LF01	23238506	Coil, Peaking, TRF4229AJ
LF02	23238506	Coil, Peaking, TRF4229AJ
LF03	23238506	Coil, Peaking, TRF4229AJ
LF04	23238506	Coil, Peaking, TRF4229AJ
LF05	23238506	Coil, Peaking, TRF4229AJ
LF06	23238562	Coil, Peaking, TRF4109AJ
LF07	23238562	Coil, Peaking, TRF4109AJ
LF08	23238714	Coil, Peaking, TRF4100AJ
LF09	23238714	Coil, Peaking, TRF4100AJ
LF10	23238562	Coil, Peaking, TRF4109AJ
LF11	23289109	Coil, Peaking, TRF41R0AF
LF13	23289100	Coil, Peaking, TRF4100AF
LF17	23289100	Coil, Peaking, TRF4100AF
LQ01	23238709	Coil, Peaking, TRF4270AJ
LQ02	23237991	Coil, Peaking, TRF4479AC
LQ03	23237991	Coil, Peaking, TRF4479AC
LQ04	23238718	Coil, Peaking, TRF4479AJ
LR01	23289100	Coil, Peaking, TRF4100AF
LR01	23289109	Coil, Peaking, TRF41R0AF
LR02	23289109	Coil, Peaking, TRF41R0AF

Location No.	Part No.	Description
LS02	23103859	Coil (Ferrite Bead), TEM2011
LV06	23103832	Chip (Ferrite Bead), TEM2125M
LV07	23103832	Chip (Ferrite Bead), TEM2125M
LV08	23289330	Coil, Peaking, TRF4330AF
LV09	23289100	Coil, Peaking, TRF4100AF
LV10	23289220	Coil, Peaking, TRF4220AF
LV11	23289330	Coil, Peaking, TRF4330AF
LV42	23289100	Coil, Peaking, TRF4100AF
LV43	23289100	Coil, Peaking, TRF4100AF
LV47	23289109	Coil, Peaking, TRF41R0AF
LW02	23261974	Coil, Choke, HC5-035
LW04	23103859	Coil (Ferrite Bead), TEM2011
LW05	23103859	Coil (Ferrite Bead), TEM2011
LZ01	23238710	Coil, Peaking, TRF4220AJ
LZ02	23238714	Coil, Peaking, TRF4100AJ
LZ03	23238714	Coil, Peaking, TRF4100AJ
LZ04	23238714	Coil, Peaking, TRF4100AJ
LZ05	23238714	Coil, Peaking, TRF4100AJ
LZ08	23238707	Coil, Peaking, TRF4390AJ
LZ09	70131060	Filter, ZBF253D-00
LZ10	70131060	Filter, ZBF253D-00
T400	23224364	Transformer, Focus, TLN2168AH
T401	23224367	Transformer, Horiz. Drive, TLN1098AH
⚠T461	23236552	Transformer, Flyback, TFB3078BD
⚠T461A	23192917	Cabie, Anode
T461B	23960136	Adhesive, TSE3843-W
T461Z	23236508	Transformer, Flyback, TFB3078ZD
T801	23211670	Line Filter, TRF3164G
T802	23211670	Line Filter, TRF3164G
⚠T803	23217432	Transformer, Power, TPW1562AZ
T804	23217361	Coil, Choke, TPW2009AZ
⚠T862	23217433	Transformer, Converter, TPW3426AS

SEMICONDUCTORS

Q201	A6335470	Transistor, 2SC2712-Y
Q205	A6541130	Transistor, 2SA1162-Y
Q261	A6335470	Transistor, 2SC2712-Y
Q262	A6541130	Transistor, 2SA1162-Y
Q270	A6004040	Transistor, RN1404
Q271	A6004040	Transistor, RN1404
Q272	A6014040	Transistor, RN2404
Q273	A6335470	Transistor, 2SC2712-Y
Q281	23904943	IC, MM1111XS
Q282	A6317440	Transistor, 2SC1815-Y
Q291	A6330069	Transistor, 2SC2482 FA-1
Q301	23319787	IC, LA7833S
Q301B	70391355	Screw, BITTB3X8SZN
Q302	B0384625	IC, TA8859CP
Q340	A6317440	Transistor, 2SC1815-Y
Q341	A6534040	Transistor, 2SA1015-Y
Q350	A6317440	Transistor, 2SC1815-Y
Q351	A6534040	Transistor, 2SA1015-Y
Q352	A6002030	Transistor, RN1203
Q353	A6002030	Transistor, RN1203
Q354	A6534145	Transistor, 2SA1020-Y(C)
Q360	B0350510	IC, TA75458S

Location No.	Part No.	Description
Q361	23314548	Transistor, 2SC4256
Q370	A6534040	Transistor, 2SA1015-Y
Q402	A6330069	Transistor, 2SC2482 FA-1
Q404	A6873777	Transistor, 2SD2553
Q404B	72471082	Screw, BRDT2W3X10 SZN
Q420	23314141	Transistor, 2SC3852
Q420B	70391356	Screw, BITTB3X10 SZN
Q421	A6317440	Transistor, 2SC1815-Y
Q430	23314707	Transistor, 2SD1944-H
Q460	A6625365	Transistor, 2SB688-O(BS)
Q460B	72471082	Screw, BRDT2W3X10 SZN
Q461	A6317440	Transistor, 2SC1815-Y
Q462	A6317440	Transistor, 2SC1815-Y
Q470	A6317440	Transistor, 2SC1815-Y
Q480	23314246	Transistor, 2SC2023 LF-4
Q483	B0345651	IC, TA7508P(J)
Q501	B0386208	IC, TA1276AN
Q502	A6335470	Transistor, 2SC2712-Y
Q503	A6541130	Transistor, 2SA1162-Y
Q504	A6335470	Transistor, 2SC2712-Y
Q518	A6335470	Transistor, 2SC2712-Y
Q601	23318413	IC, LA4282
Q612	A6534040	Transistor, 2SA1015-Y
Q622	A6317440	Transistor, 2SC1815-Y
Q671	B0350000	IC, TA75458P
Q681	A6342200	Transistor, 2SC2878-A
Q682	A6342200	Transistor, 2SC2878-A
Q701	B0588213	IC, T7K64(Z)
Q703	23905014	IC, LC78816M
Q704	23905014	IC, LC78816M
Q705	23905014	IC, LC78816M
Q707	B0379550	IC, TA8667P
Q709	A6734590	Transistor, 2SC752(G)TM-Y
Q710	23314204	Transistor, 2SC2412K,Q
Q712	23905320	IC, NM24C16EN
Q713	23905320	IC, NM24C16EN
Q715	23319808	IC, M5218AP
Q717	23319808	IC, M5218AP
Q719	23319808	IC, M5218AP
Q751	23905094	IC, STK392-110
Q752	23905094	IC, STK392-110
Q754	23904521	IC, AN7805
Q754B	70391356	Screw, BITTB3X10 SZN
Q755	23904525	IC, AN7809
Q755B	70391356	Screw, BITTB3X10 SZN
Q756	23318841	IC, AN79M09F
Q756B	70391356	Screw, BITTB3X10 SZN
Q757	A6317440	Transistor, 2SC1815-Y
Q758	A6317440	Transistor, 2SC1815-Y
Q759	A6534040	Transistor, 2SA1015-Y
Q760	23314141	Transistor, 2SC3852
Q760B	70391356	Screw, BITTB3X10 SZN
Q761	A6534040	Transistor, 2SA1015-Y
Q762	A6317440	Transistor, 2SC1815-Y
Q764	B0487045	IC, TC74HC4049AP
Q765	A6317440	Transistor, 2SC1815-Y
Q766	A6317440	Transistor, 2SC1815-Y
Q767	B0470662	IC, TC4066BP
Q768	A6534040	Transistor, 2SA1015-Y
Q769	A6317440	Transistor, 2SC1815-Y
Q770	A6534040	Transistor, 2SA1015-Y
Q771	A6533730	Transistor, 2SA1012-Y
Q771B	23035308	Screw, BTB3X8SZN
Q771C	23960136	Adhesive, TSE3843-W

Location No.	Part No.	Description
Q772	A6534040	Transistor, 2SA1015-Y
Q773	A6317440	Transistor, 2SC1815-Y
Q801	23906540	IC, STR-Z4267
Q810	23906689	IC, PQ05RR11
Q810B	70391355	Screw, BITTB3X8SZN
Q811	A6002050	Transistor, RN1205
Q812	A6317440	Transistor, 2SC1815-Y
Q821	A6317440	Transistor, 2SC1815-Y
Q831	23319941	IC, SI-3050C
Q831B	70391356	Screw, BITTB3X10 SZN
Q832	23905976	IC, PQ05RD11
Q832B	70391356	Screw, BITTB3X10 SZN
Q833	23905977	IC, PQ09RD11
Q833B	70391356	Screw, BITTB3X10 SZN
⚠Q862	A8643112	Photo Coupler, TLP621(GRL-L
Q901	A6372621	Transistor, 2SC5360
Q902	A6317440	Transistor, 2SC1815-Y
Q911	A6372621	Transistor, 2SC5360
Q913	A6317440	Transistor, 2SC1815-Y
Q914	A6321240	Transistor, 2SC2120-Y
Q917	A6317440	Transistor, 2SC1815-Y
Q918	A6534040	Transistor, 2SA1015-Y
Q919	A6317440	Transistor, 2SC1815-Y
Q920	A6534040	Transistor, 2SA1015-Y
Q921	A6372621	Transistor, 2SC5360
Q922	A6317440	Transistor, 2SC1815-Y
Q925	A6317440	Transistor, 2SC1815-Y
Q926	A6317440	Transistor, 2SC1815-Y
Q961	A6317440	Transistor, 2SC1815-Y
Q962	A6509140	Transistor, 2SA562TMY
Q963	A6317440	Transistor, 2SC1815-Y
Q964	A6534040	Transistor, 2SA1015-Y
Q965	A6317440	Transistor, 2SC1815-Y
Q966	A6534040	Transistor, 2SA1015-Y
Q6101	A6317440	Transistor, 2SC1815-Y
Q9601	A6534040	Transistor, 2SA1015-Y
Q9602	A6534040	Transistor, 2SA1015-Y
Q9605	A6317440	Transistor, 2SC1815-Y
Q9606	A6534040	Transistor, 2SA1015-Y
QA01	23000097	IC, CXP750096-101S
QA02	23905666	IC, AT24C1610PC
QA03	A6534040	Transistor, 2SA1015-Y
QA91	A6317440	Transistor, 2SC1815-Y
QB01	A6317440	Transistor, 2SC1815-Y
QB02	A6534040	Transistor, 2SA1015-Y
QB03	A6002050	Transistor, RN1205
QB81	A6342200	Transistor, 2SC2878-A
QB82	A6342200	Transistor, 2SC2878-A
QB83	A6534040	Transistor, 2SA1015-Y
QB92	A6317440	Transistor, 2SC1815-Y
QB93	A6534040	Transistor, 2SA1015-Y
QB94	A6534040	Transistor, 2SA1015-Y
QB95	A6534040	Transistor, 2SA1015-Y
QB96	A6534040	Transistor, 2SA1015-Y
QF01	23906822	IC, SDA5273-2S C
QF02	23314204	Transistor, 2SC2412K,Q
QF03	23314204	Transistor, 2SC2412K,Q
QF04	A6734590	Transistor, 2SC752(G)TM-Y
QF06	23314204	Transistor, 2SC2412K,Q
QF10	23906641	IC, AS4C14400
QF11	23906367	IC, PST9146NL
QQ01	B0385755	IC, TA1229N
QQ02	B0383881	IC, TA8772AN
QQ03	A6335470	Transistor, 2SC2712-Y

Location No.	Part No.	Description
QQ04	A6335470	Transistor, 2SC2712-Y
QR01	B0386235	IC, TA1287P
QR03	23114530	Transistor, 2SA933S-Q
QR05	A6317440	Transistor, 2SC1815-Y
QR21	A6335470	Transistor, 2SC2712-Y
QR24	A6335470	Transistor, 2SC2712-Y
QR35	A6317440	Transistor, 2SC1815-Y
QR36	A6317440	Transistor, 2SC1815-Y
QR37	A6534040	Transistor, 2SA1015-Y
QR38	A6317440	Transistor, 2SC1815-Y
QR39	A6534040	Transistor, 2SA1015-Y
QR40	A6317440	Transistor, 2SC1815-Y
QR41	A6534040	Transistor, 2SA1015-Y
QS01	A6359870	Transistor, 2SC3326-B
QS02	A6359870	Transistor, 2SC3326-B
QS03	A6335470	Transistor, 2SC2712-Y
QS04	A6335470	Transistor, 2SC2712-Y
QS05	A6359870	Transistor, 2SC3326-B
QS06	A6359870	Transistor, 2SC3326-B
QS07	A6014040	Transistor, RN2404
QS08	A6359870	Transistor, 2SC3326-B
QS09	A6359870	Transistor, 2SC3326-B
QS11	A6359870	Transistor, 2SC3326-B
QS12	A6014040	Transistor, RN2404
QV01	B0385650	IC, TA1218N
QV02	A6335470	Transistor, 2SC2712-Y
QV06	A6541130	Transistor, 2SA1162-Y
QV07	A6359870	Transistor, 2SC3326-B
QV08	A6335470	Transistor, 2SC2712-Y
QV09	23114528	Transistor, 2SC1740S-Q
QV10	A6335470	Transistor, 2SC2712-Y
QV11	A6335470	Transistor, 2SC2712-Y
QV12	23114528	Transistor, 2SC1740S-Q
QV14	23114528	Transistor, 2SC1740S-Q
QV15	A6359870	Transistor, 2SC3326-B
QV800	A6317440	Transistor, 2SC1815-Y
QW06	A6317440	Transistor, 2SC1815-Y
QW07	A6734590	Transistor, 2SC752(G)TM-Y
QW09	A6317440	Transistor, 2SC1815-Y
QW10	A6534040	Transistor, 2SA1015-Y
QW19	A6317440	Transistor, 2SC1815-Y
QW20	A6317440	Transistor, 2SC1815-Y
QW51	23314701	Transistor, 2SA1186A
QW52	23314705	Transistor, 2SD1763A
QZ01	B0410895	IC, TC90A49P
QZ02	A6335470	Transistor, 2SC2712-Y
QZ03	A6541130	Transistor, 2SA1162-Y
QZ04	A6541130	Transistor, 2SA1162-Y
QZ05	A6541130	Transistor, 2SA1162-Y
QZ06	A6541130	Transistor, 2SA1162-Y
QZ07	A6541130	Transistor, 2SA1162-Y
QZ08	A6335470	Transistor, 2SC2712-Y
D201	23118041	Diode, MA111-(TX)
D301	23118479	Diode, BYD33J
D302	23118479	Diode, BYD33J
D303	23115599	Diode, 1N4148
D308	23118822	Diode, ERB12-02
D309	23118822	Diode, ERB12-02
D315	23115599	Diode, 1N4148
D332	23316794	Diode, SC570A
D340	23115599	Diode, 1N4148
D341	23316675	Diode, Zener, MTZJ6.2B
D350	23115599	Diode, 1N4148
D351	23115599	Diode, 1N4148

Location No.	Part No.	Description
D352	23115599	Diode, 1N4148
D353	23316672	Diode, Zener, MTZJ5.6B
D354	23115599	Diode, 1N4148
D360	23316677	Diode, Zener, MTZJ6.8A
D360	23118527	Diode, Zener, RD6.8ESA B1
D370	23316672	Diode, Zener, MTZJ5.6B
D371	23115599	Diode, 1N4148
D401	23316723	Diode, Zener, MTZJ13C
D406	A7978850	Diode, S5295G
D408	23118338	Diode, RU4AM
D421	23118041	Diode, MA111-(TX)
D427	23316680	Diode, Zener, MTZJ7.5A
D428	23316751	Diode, Zener, MTZJ30C
D429	23316751	Diode, Zener, MTZJ30C
D430	23316568	Diode, MA8051-M, TX
D431	23316558	Diode, HSM2836C, TL
D432	23316568	Diode, MA8051-M, TX
D441	23316688	Diode, Zener, MTZJ9.1C
D443	23118338	Diode, RU4AM
D444	23118338	Diode, RU4AM
D448	23118056	Diode, AG01
D460	A7568480	Diode, TVR-1G
D461	23316582	Diode, ERC20-06
D461C	23960136	Adhesive, TSE3843-W
D462	23115599	Diode, 1N4148
D463	23115599	Diode, 1N4148
D464	23316718	Diode, Zener, MTZJ12A
D465	23316718	Diode, Zener, MTZJ12A
D467	23118479	Diode, BYD33J
D470	23115599	Diode, 1N4148
D471	A7568460	Diode, TVR-1B
D474	23316719	Diode, Zener, MTZJ12B
D481	23316726	Diode, Zener, MTZJ15C
D482	23118479	Diode, BYD33J
D483	23316720	Diode, Zener, MTZJ12C
D484	23316681	Diode, Zener, MTZJ7.5B
D486	23115599	Diode, 1N4148
D487	23118479	Diode, BYD33J
D488	23115599	Diode, 1N4148
D489	23316659	Diode, Zener, MTZJ3.6B
D601	23115599	Diode, 1N4148
D602	23115599	Diode, 1N4148
D603	23115599	Diode, 1N4148
D604	23115599	Diode, 1N4148
D611	23115599	Diode, 1N4148
D612	23115599	Diode, 1N4148
D613	23115599	Diode, 1N4148
D614	23115599	Diode, 1N4148
D635	23115599	Diode, 1N4148
D671	23316739	Diode, MTZJ22C
D701	23115537	Diode, 1SS131
D702	23115537	Diode, 1SS131
D703	23115537	Diode, 1SS131
D704	23115537	Diode, 1SS131
D801	23316962	Diode, S1WBA20 4101
D802	23357041	Diode, LN6SB60-F05
D802B	72471082	Screw, BRDT2W3X10 SZN
D803	23316718	Diode, Zener, MTZJ12A
D804	23316718	Diode, Zener, MTZJ12A
D805	23316686	Diode, Zener, MTZJ9.1A
D806	23316747	Diode, Zener, MTZJ27C
D809	23316753	Diode, Zener, MTZJ33A
D810	23316747	Diode, Zener, MTZJ27C
D811	23118057	Diode, AG01A

Location No.	Part No.	Description
D812	23316688	Diode, Zener, MTZJ9.1C
D813	23118060	Diode, AL01Z
D814	23316672	Diode, Zener, MTZJ5.6B
D816	24000656	Varistor, 470V
D817	23115599	Diode, 1N4148
D818	23115599	Diode, 1N4148
D819	23115599	Diode, 1N4148
D820	23316671	Diode, Zener, MTZJ5.6A
D821	23316718	Diode, Zener, MTZJ12A
D822	23316662	Diode, Zener, MTZJ4.3A
D853	23316813	Diode, EG1
D854	23316813	Diode, EG1
D855	23357215	Diode, D4SBS6
D855B	70391355	Screw, BITTB3X8SZN
D856	23357216	Diode, D4SBL20U
D856B	70391355	Screw, BITTB3X8SZN
D857	23115532	Diode, ERB12-01
D858	23115599	Diode, 1N4148
D859	23357214	Diode, D4SBS4
D859B	70391355	Screw, BITTB3X8SZN
D860	23357217	Diode, D4SBL40
D860B	70391355	Screw, BITTB3X8SZN
D862	23115599	Diode, 1N4148
D863	23316553	Diode, 1SS145
D901	23115599	Diode, 1N4148
D902	23115599	Diode, 1N4148
D903	23115599	Diode, 1N4148
D911	23115599	Diode, 1N4148
D912	23115599	Diode, 1N4148
D913	23115599	Diode, 1N4148
D914	23115599	Diode, 1N4148
D915	23115599	Diode, 1N4148
D921	23115599	Diode, 1N4148
D922	23115599	Diode, 1N4148
D924	23115599	Diode, 1N4148
D925	23115599	Diode, 1N4148
D926	23115599	Diode, 1N4148
D961	23115599	Diode, 1N4148
D962	23115599	Diode, 1N4148
D965	23115599	Diode, 1N4148
D966	23115599	Diode, 1N4148
D7701	23115599	Diode, 1N4148
D7702	23115532	Diode, ERB12-01
D7703	23316751	Diode, Zener, MTZJ30C
D7705	23115599	Diode, 1N4148
D7706	23115599	Diode, 1N4148
D7707	23115599	Diode, 1N4148
D7708	23115599	Diode, 1N4148
D7709	23316675	Diode, Zener, MTZJ6.2B
D7710	23316716	Diode, Zener, MTZJ11B
D7711	23316716	Diode, Zener, MTZJ11B
D7717	23316675	Diode, Zener, MTZJ6.2B
D7718	23316675	Diode, Zener, MTZJ6.2B
D7719	23316675	Diode, Zener, MTZJ6.2B
D7720	23316675	Diode, Zener, MTZJ6.2B
D7721	23316675	Diode, Zener, MTZJ6.2B
D7722	23316675	Diode, Zener, MTZJ6.2B
D7723	23115599	Diode, 1N4148
D7724	23115599	Diode, 1N4148
D7725	23115599	Diode, 1N4148
D8301	23115532	Diode, ERB12-01
D8302	23115532	Diode, ERB12-01
D8303	23115532	Diode, ERB12-01
DA01	23115599	Diode, 1N4148

Location No.	Part No.	Description
DA02	23115599	Diode, 1N4148
DA03	23115599	Diode, 1N4148
DA43	23115599	Diode, 1N4148
DA44	23115599	Diode, 1N4148
DA45	23115599	Diode, 1N4148
DA46	23115599	Diode, 1N4148
DA420	23115599	Diode, 1N4148
DB01	23358493	LED, SPR54MVWFLMN
DB03	23358522	LED, SIR-56SB3F
DF01	23316654	Diode, Zener, MTZJ3.0A
DF02	23115599	Diode, 1N4148
DR01	23115599	Diode, 1N4148
DR02	23115599	Diode, 1N4148
DR02	23316557	Diode, HSM221C
DR03	23118351	Diode, Zener, RD4.7M-T1BB2
DR03	23115599	Diode, 1N4148
DR61	23115599	Diode, 1N4148
DR62	23115599	Diode, 1N4148
DR63	23115599	Diode, 1N4148
DV01	23118296	Diode, Zener, RD9.1M-T1BB2
DV02	23118296	Diode, Zener, RD9.1M-T1BB2
DV03	23118296	Diode, Zener, RD9.1M-T1BB2
DV04	23118296	Diode, Zener, RD9.1M-T1BB2
DV05	23118296	Diode, Zener, RD9.1M-T1BB2
DV06	23118296	Diode, Zener, RD9.1M-T1BB2
DV07	23118296	Diode, Zener, RD9.1M-T1BB2
DV10	23316557	Diode, HSM221C
DV11	23316557	Diode, HSM221C
DV12	23118296	Diode, Zener, RD9.1M-T1BB2
DV14	23118296	Diode, Zener, RD9.1M-T1BB2
DV21	23316557	Diode, HSM221C
DW04	23115599	Diode, 1N4148
DW05	23115599	Diode, 1N4148
DW21	23115599	Diode, 1N4148

MISCELLANEOUS

B150B	23037312	Screw, BTBW3X12SZN
B224	23035412	Screw, BTB4X12SZN
B230	23037312	Screw, BTBW3X12SZN
B233	23035412	Screw, BTB4X12SZN
B239	23035412	Screw, BTB4X12SZN
B330	23037312	Screw, BTBW3X12SZN
B332	23037312	Screw, BTBW3X12SZN
B342	23035010	Screw, PBI4X16
BB11A	23903022	Socket, 8P, 2.5
BB11B	23903022	Socket, 8P, 2.5
BB11C	23368627	Plug, 8P, 2.5
BB12A	23903022	Socket, 8P, 2.5
BB12B	23903022	Socket, 8P, 2.5
BB12C	23368627	Plug, 8P, 2.5
BB13A	23903022	Socket, 8P, 2.5
BB13B	23903022	Socket, 8P, 2.5
BB13C	23368627	Plug, 8P, 2.5
BB21A	23903022	Socket, 8P, 2.5
BB21B	23903022	Socket, 8P, 2.5
BB21C	23368627	Plug, 8P, 2.5
BB22A	23903022	Socket, 8P, 2.5
BB22B	23903022	Socket, 8P, 2.5
BB22C	23368627	Plug, 8P, 2.5
E921	23964147	Coolant EG/G
E951	23964147	Coolant EG/G
E981	23964147	Coolant EG/G
⚠F801	23144508	Fuse, 4.0A
F801A	23165433	Holder, Fuse

Location No.	Part No.	Description
F801B	23165433	Holder, Fuse
⚠F860	23144869	Fuse, 2.5A
F860A	23165433	Holder, Fuse
F860B	23165433	Holder, Fuse
⚠F870	23144867	Fuse, 4.0A
F870A	23165433	Holder, Fuse
F870B	23165433	Holder, Fuse
G005	23115599	Diode, 1N4148
G023	24327180	MF, 18 ohm, ±1%, 1/4W
G401	24366102	CF, 1k ohm
G510	23289479	Coil, Peaking, TRF44R7AF
G527	24567104	PF, 0.1μF
G528	24567104	PF, 0.1μF
G529	24567104	PF, 0.1μF
GJ02	24000824	Chip, Jumper, 2125 type
GJ04	24000824	Chip, Jumper, 2125 type
GJ05	24000824	Chip, Jumper, 2125 type
GJ06	24000824	Chip, Jumper, 2125 type
GJ08	24000824	Chip, Jumper, 2125 type
GJ09	24000824	Chip, Jumper, 2125 type
GJ09	24000824	Chip, Jumper, 2125 type
GJ26	24000824	Chip, Jumper, 2125 type
GJ27	24000824	Chip, Jumper, 2125 type
GJ28	24000824	Chip, Jumper, 2125 type
GJ61	24000824	Chip, Jumper, 2125 type
GJ62	24000824	Chip, Jumper, 2125 type
GJ72	24000824	Chip, Jumper, 2125 type
GJ73	24000824	Chip, Jumper, 2125 type
GJ78	24000824	Chip, Jumper, 2125 type
GJ79	24000824	Chip, Jumper, 2125 type
GJ80	24000824	Chip, Jumper, 2125 type
GJ81	24000824	Chip, Jumper, 2125 type
GS01	24000824	Chip, Jumper, 2125 type
GV05	23103832	Chip (Ferrite Bead), TEM2125M
GV07	24000824	Chip, Jumper, 2125 type
GV08	24000824	Chip, Jumper, 2125 type
GV11	24000824	Chip, Jumper, 2125 type
GV13	24872681	Chip, 680 ohm, 1/16W
GV14	24000824	Chip, Jumper, 2125 type
GV15	24000824	Chip, Jumper, 2125 type
GV17	24000824	Chip, Jumper, 2125 type
GV38	24000824	Chip, Jumper, 2125 type
GV39	24000824	Chip, Jumper, 2125 type
GV40	24000824	Chip, Jumper, 2125 type
GV41	24872102	Chip, 1k ohm, 1/16W
GV97	24872101	Chip, 100 ohm, 1/16W
H002	23148352	Module, MPSN11A, NICAM/IGR A-PRO
KB01	23904946	Remote Sensor, RPM-676CBR-S
P301	23902863	Socket, 20P 2MM
P350	23368520	Plug, 20P 2MM
P507	23902655	Socket, B-B, 15P
P661	23365444	Jack, Earphone
P701	23368520	Plug, 20P 2MM
P702	23368520	Plug, 20P 2MM
P708	23902863	Socket, 20P 2MM
P709	23902863	Socket, 20P 2MM
P713	23164787	Plug, 7P
P714	23164787	Plug, 7P
P715	23164787	Plug, 7P
P720	23164786	Plug, 6P
P801	23372012	Power Cord (43PJ93B)

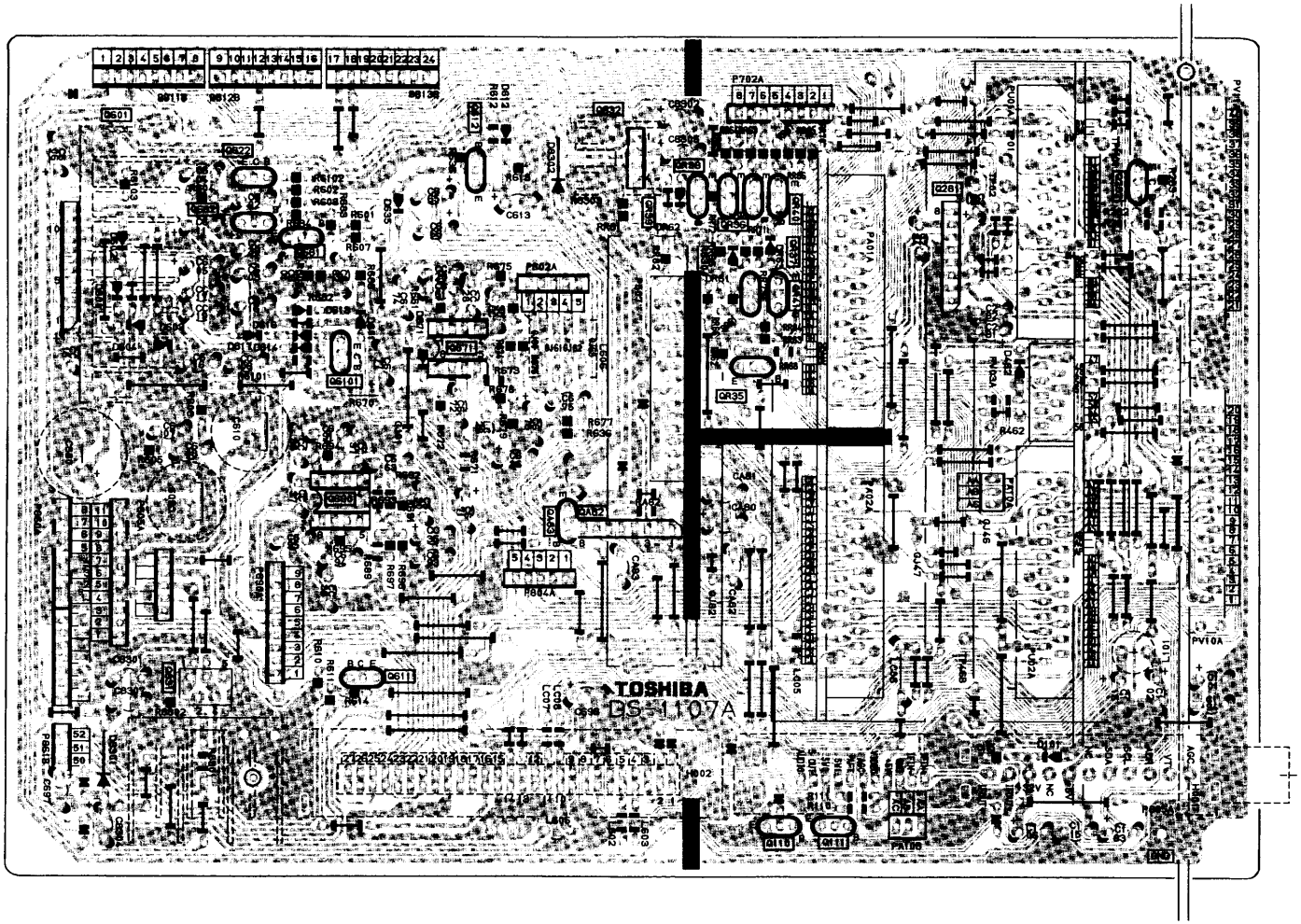
Location No.	Part No.	Description
P801	23372014	Power Cord (43PJ93G)
P802	23164965	Plug, 4P
PA01A	23903025	Socket, 25P
PA01B	23368634	Plug, 25P 1.5MM
PA02A	23903025	Socket, 25P
PA02B	23368634	Plug, 25P 1.5MM
PF01A	23367724	Connector, B-B, 15P
PH01	23902604	Socket, 21P
PH02	23902604	Socket, 21P
PH03	23902604	Socket, 21P
PU01	23368634	Plug, 25P 1.5MM
PU01A	23903025	Socket, 25P
PU02	23368634	Plug, 25P 1.5MM
PU02A	23903025	Socket, 25P
PV10A	23902863	Socket, 20P 2MM
PV10B	23368520	Plug, 20P 2MM
PV11A	23902863	Socket, 20P 2MM
PV11B	23368520	Plug, 20P 2MM
S602	23145412	Switch, Slide, 2C2P
⚠S801	23145434	Switch, Power, 2C2P
SA01	23145226	Switch, Push, 1C1P
SA02	23145226	Switch, Push, 1C1P
SA03	23145226	Switch, Push, 1C1P
SA04	23145226	Switch, Push, 1C1P
SA06	23145226	Switch, Push, 1C1P
SA07	23145226	Switch, Push, 1C1P
⚠SR80	23146572	Relay, DC5V
⚠SR81	23146572	Relay, DC5V
⚠V901A	23902019	Socket, CRT, 10P
⚠V902A	23902019	Socket, CRT, 10P
⚠V903A	23902019	Socket, CRT, 10P
W661	23351131	Speaker, SPK-1390, 120x120mm, 8 ohm
W662	23351131	Speaker, SPK-1390, 120x120mm, 8 ohm
X401	23153721	Ceramic Resonator, 503kHz, TCR1023
X501	23153961	Crystal, 3.58MHz
X503	23153979	Crystal, 4.43MHz
XA01	23153497	Crystal, 16.0MHz
XF01	23153421	Crystal, 20.48MHz
XQ01	23153969	Crystal, 4MHz
XV01	23107519	Ceramic Video Trap, 4.43MHz, TCF1066
⚠Z410	23110842	Focus Pack, TPA6031
Z410A	23505177	Focus Cable
⚠Z450	24082877	CR Block, TPA5007
Z450A	23504953	Cable, Anode
Z470	23110843	Coil, Forcus, TPA6032AH
Z702	23103800	Filter, TEM2026D
Z703	23103800	Filter, TEM2026D
Z704	23103800	Filter, TEM2026D
Z705	23103800	Filter, TEM2026D
Z706	23103800	Filter, TEM2026D
Z707	23103800	Filter, TEM2026D
Z711	23103800	Filter, TEM2026D
Z712	23103800	Filter, TEM2026D
Z801	23905010	IC, HIC1019
⚠Z853	23144608	Protector, PRF40005PRT, DC60V, 4.0A
⚠Z854	23144608	Protector, PRF40005PRT, DC60V, 4.0A
⚠Z856	23144605	Protector, PRF20005PRT, DC60V, 2.0A

Location No.	Part No.	Description
PC BOARD ASSEMBLIES		
* U901A	23783174	CRT-D/R Board, PB8764A-1
* U901B	23783175	CRT-D/G Board, PB8764A-2
* U901C	23783176	CRT-D/B Board, PB8764A-3
* U901D	23783177	SVM Board, PB8764A-4
* U902	23709774	Signal Board, PB8766A (43PJ93B)
* U902	23709796	Signal Board, PB8766B (43PJ93G)
* U903A	23783182	MICRO Board, PB8767A-1 (43PJ93B)
* U903A	23783269	MICRO Board, PB8767B-1 (43PJ93G)
* U903B	23783183	DPC Board, PB8767A-2 (43PJ93B)
* U903B	23783270	DPC Board, PB8767B-2 (43PJ93G)
* U904	23783173	DEF Board, PB8776A
* U905	23783166	VCD Board, PB8768A
* U906A	23783184	TEXT Board, PB7928A
* U907	23783185	D-CONVER Board, PB6601A
* U908	23783170	Power Board, PB8772A
* U909	23783171	CONVER Board, PB8773A
* U910	23783172	Back/T Board, PB8774A
* U911A	23783178	Front Board, PB8765A-1
* U911B	23783179	Front IN Board, PB8765A-2
* U911C	23783180	RMT-IN Board, PB8765A-3
PICTURE TUBE		
⚠V911R	23588477	Projection Tube Ass'y (R)
⚠V912B	23588479	Projection Tube Ass'y (B)
⚠V912G	23588478	Projection Tube Ass'y (G)
TUNER		
H001	23321344	Tuner, EGA22LWZ1
ACCESSORIES		
K902	23306324	Remote Hand Unit, CT-90003
AT03	23588265	Battery Cover
Y101	23563594	Owner's Manual, English, 43PJ93B/43PJ93G
Y101F	23563602	Owner's Manual, French, 43PJ93G
Y101G	23563603	Owner's Manual, German, 43PJ93G
Y101I	23563604	Owner's Manual, Italian, 43PJ93G
Y101S	23563605	Owner's Manual, Spanish, 43PJ93G
CABINET PARTS		
A101	23411170	Cabinet, Bottom
A102	23527080	Speaker Grille, R
A103	23527081	Speaker Grille, L
A125	23560038	Label, Attention Service
A201	23549378	Cover, Bezel
A202	23450122	Panel, Control
A213	23427683	Door
A214	23451976	Push Catch
A223	23445283	Knob, Power
A223C	23836492	Spring, Coil

Location No.	Part No.	Description
⚠A411	23549380	Back Cabinet
A423	23421848	Piece, Back Cover Hole
A424	23549381	Cover, Back Board
A501	23035412	Screw, BTB4X12SZN
A505	72471068	Screw, BIDT2 4X12BZ
A508	23035412	Screw, BTB4X12SZN
A512	23035412	Screw, BTB4X12SZN
A513	23035412	Screw, BTB4X12SZN
A517	23035412	Screw, BTB4X12SZN
A518	23035412	Screw, BTB4X12SZN
A543	23035412	Screw, BTB4X12SZN
A546	23035412	Screw, BTB4X12SZN
A547	23035010	Screw, PBI4X16
A701	23525855	Case
A703	23935880	Packing, Top
A707	23935877	Packing, Bottom Tray
A708	23935878	Packing, Bottom
K101	23430512	Delta, 67-A/BAssembly
K102	23430512	Delta, 67-A/BAssembly
K103	23430512	Delta, 67-A/BAssembly
K501	23837525	Lenti Sheet, SCREEN43KH-L
K502	23837526	Fresnel Sheet, SCREEN43KH-F
K503	23430602	Screen Protector, SCR-PRO 43AJ
K601	23430514	Mirror, MIRROR43H

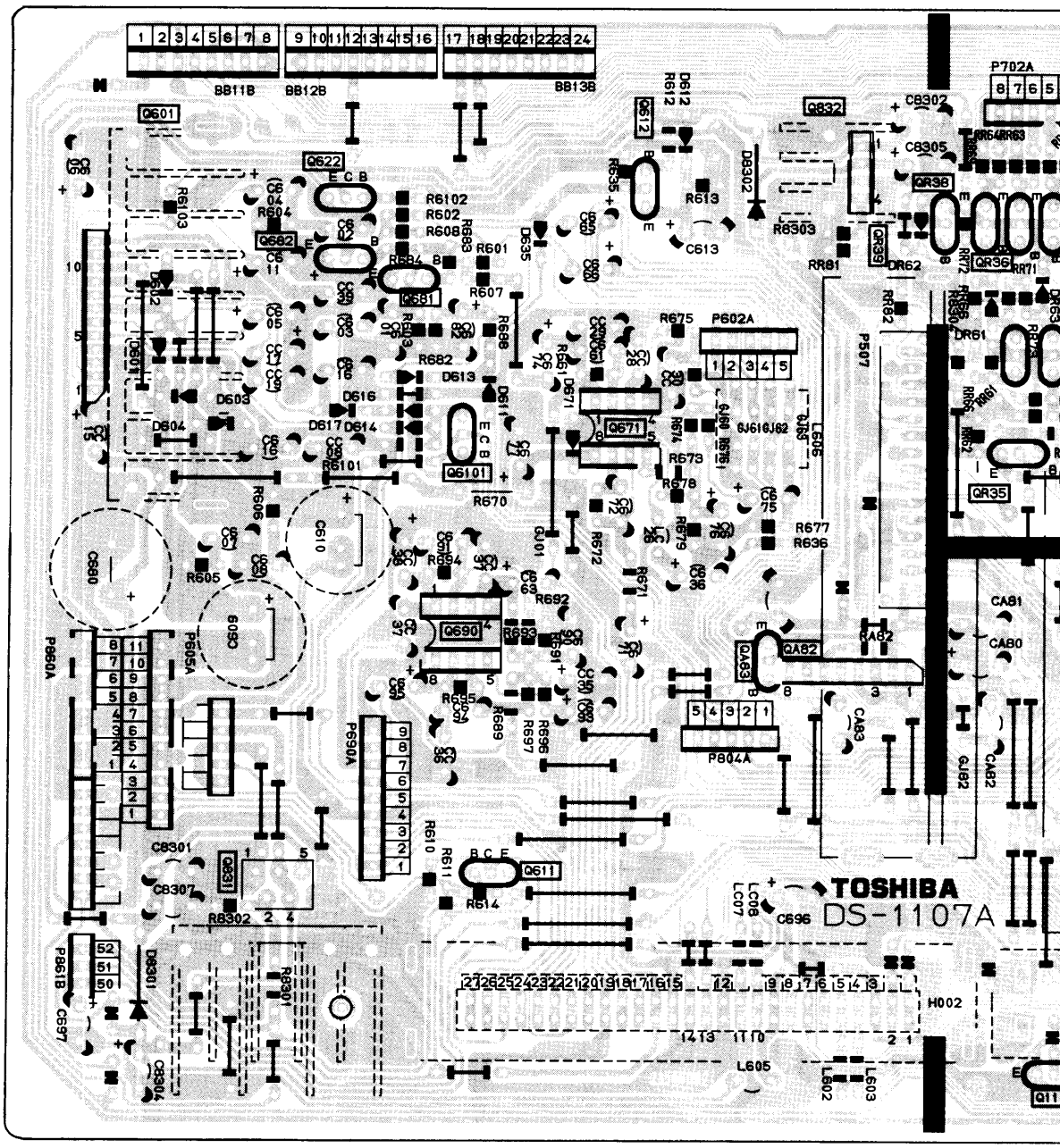
SIGNAL BOARD PB8766A

BOTTOM (FOIL) SIDE



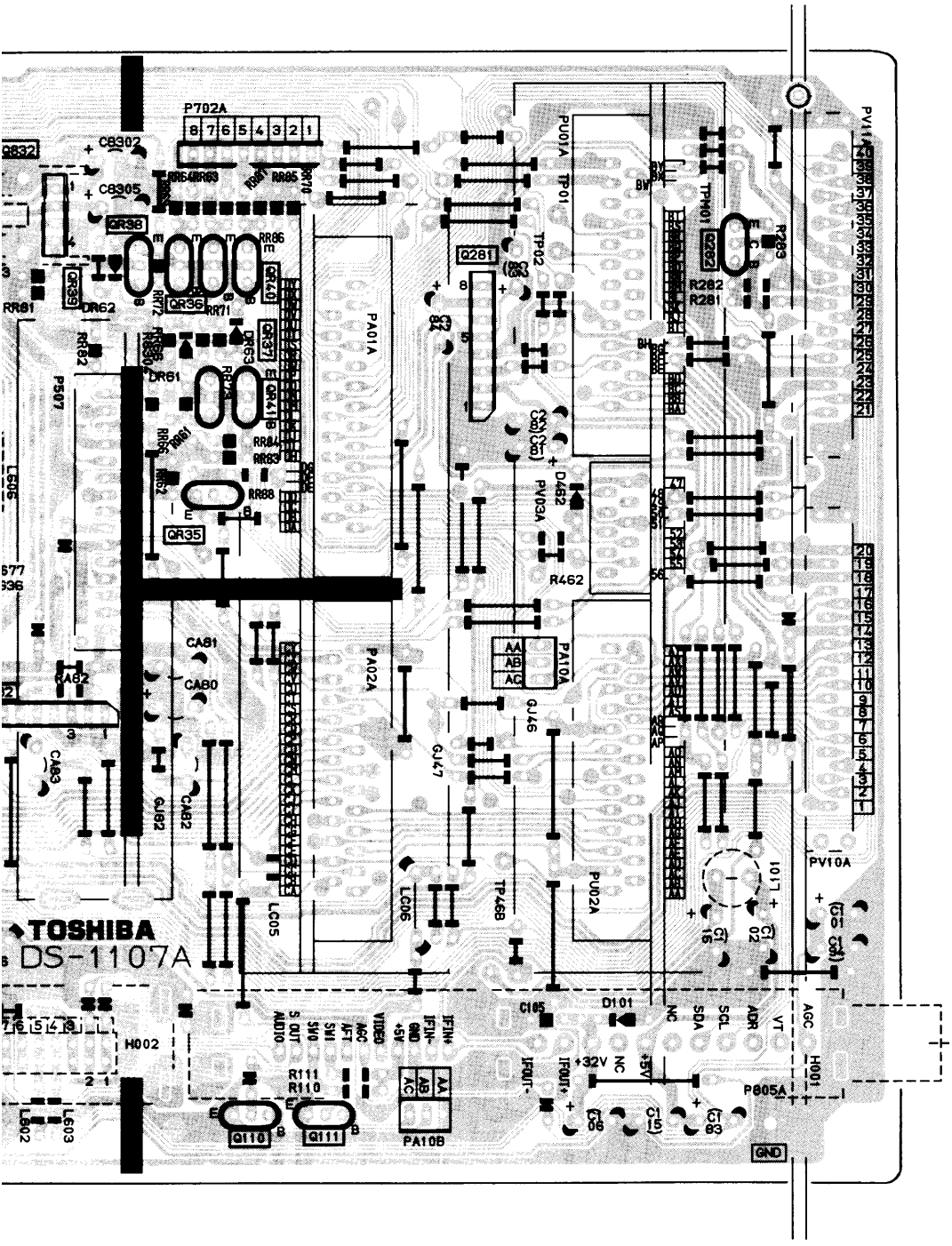
SIGNAL BOARD PB8766A

BOTTOM (FOIL) SIDE



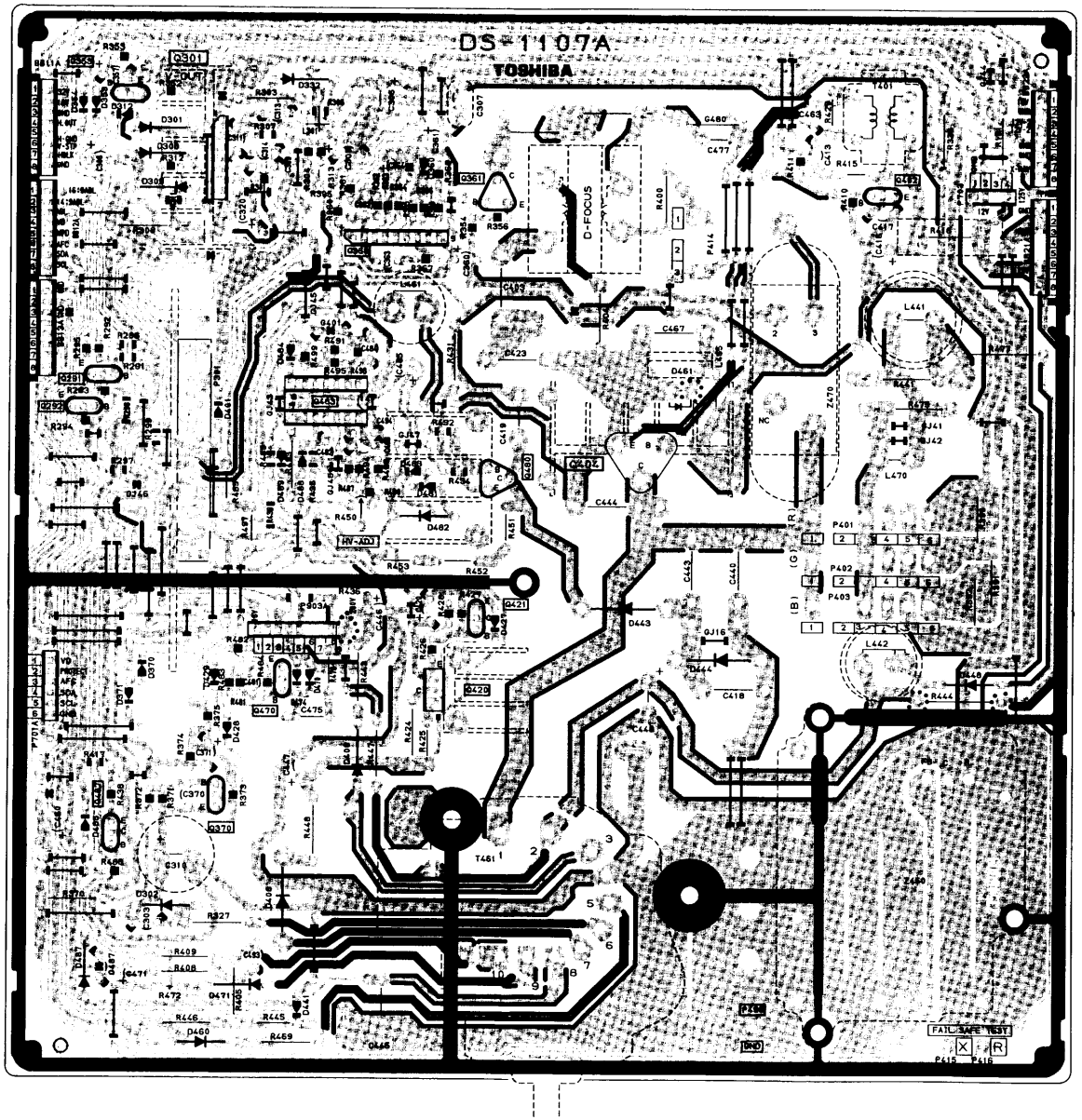
OARD PB8766A

)M (FOIL) SIDE



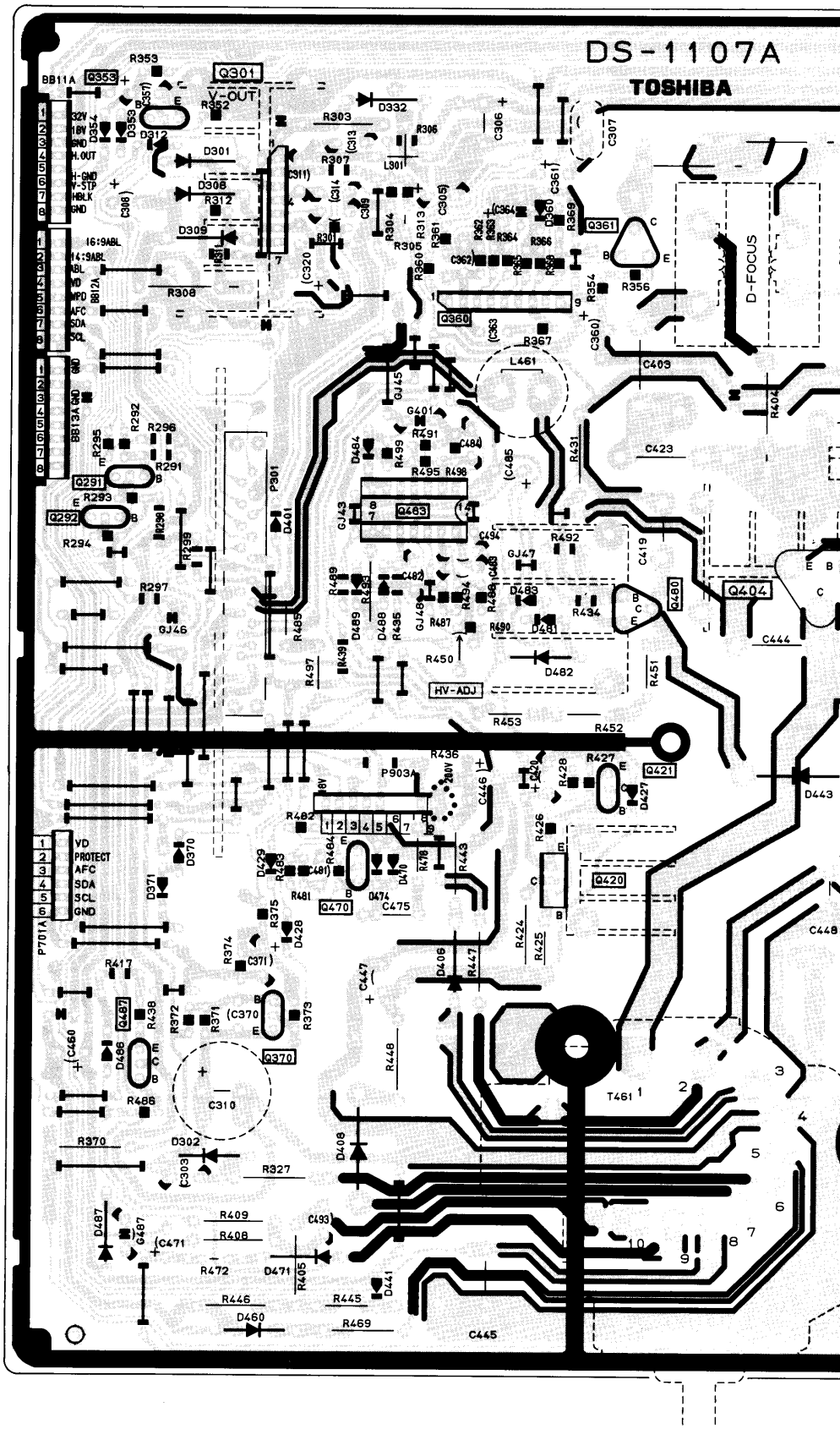
DEF BOARD PB8776A

BOTTOM (FOIL) SIDE



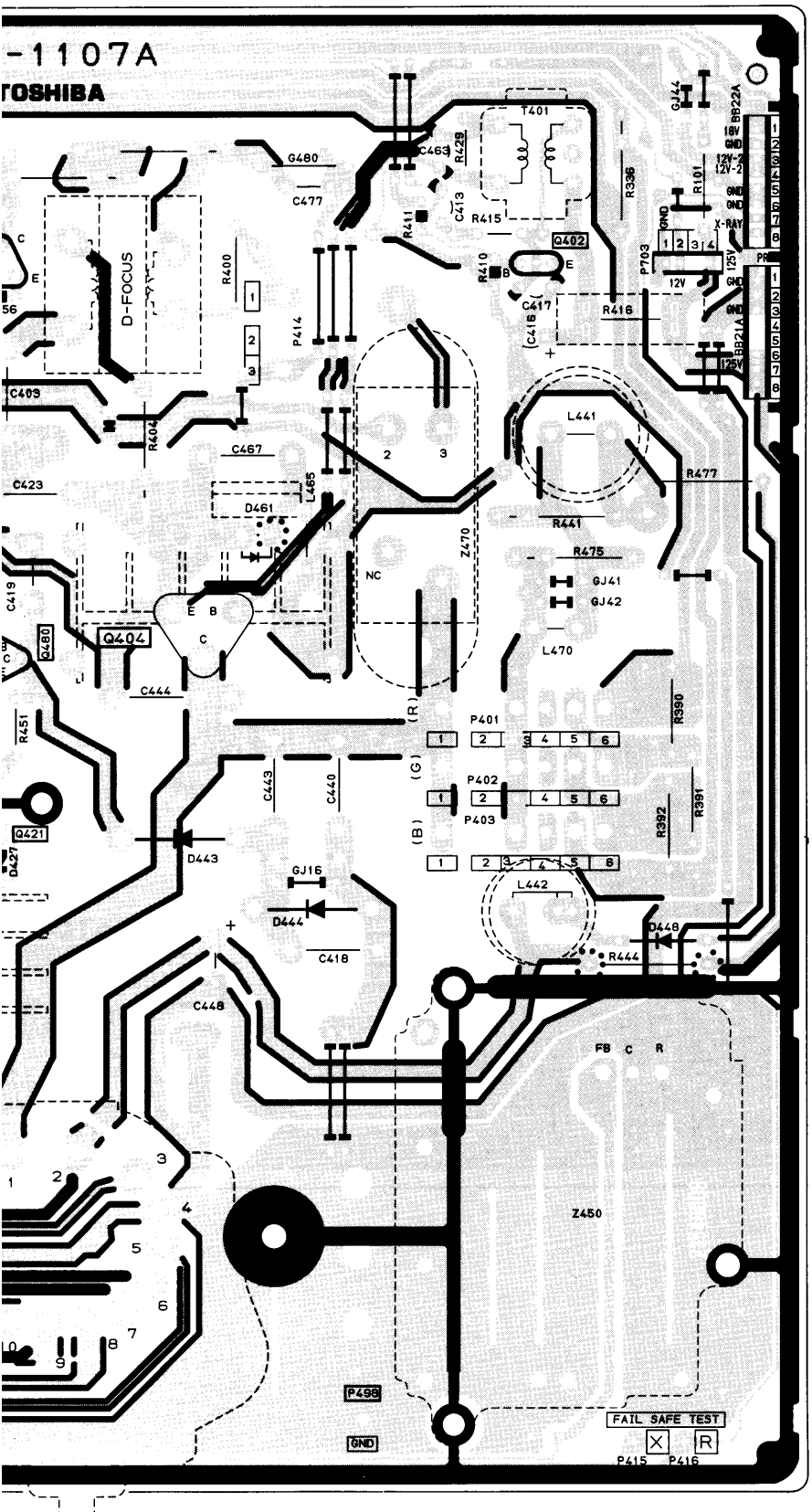
DEF BOARD PB8776

BOTTOM (FOIL) SIDE



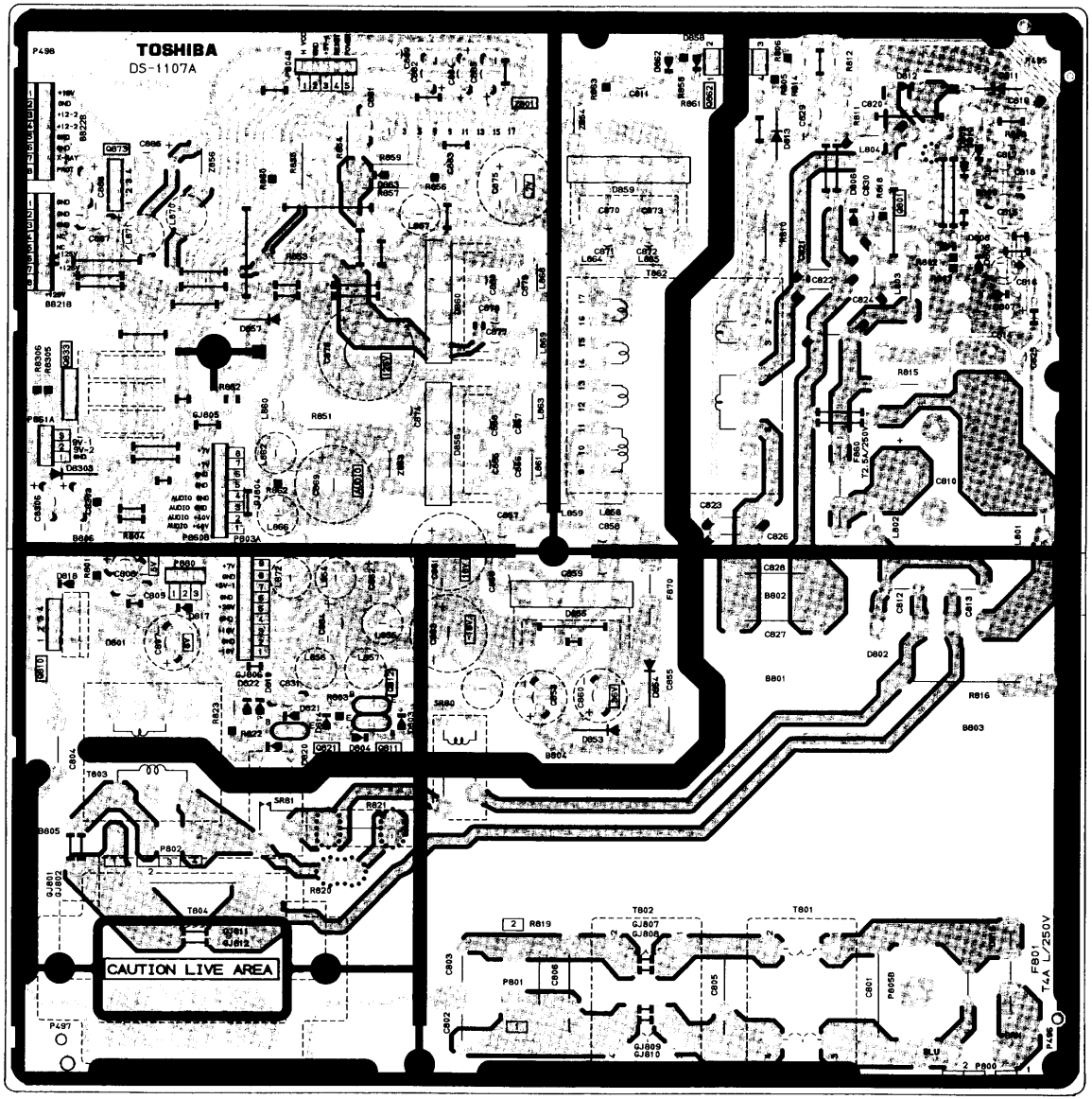
)ARD PB8776A

'OM (FOIL) SIDE



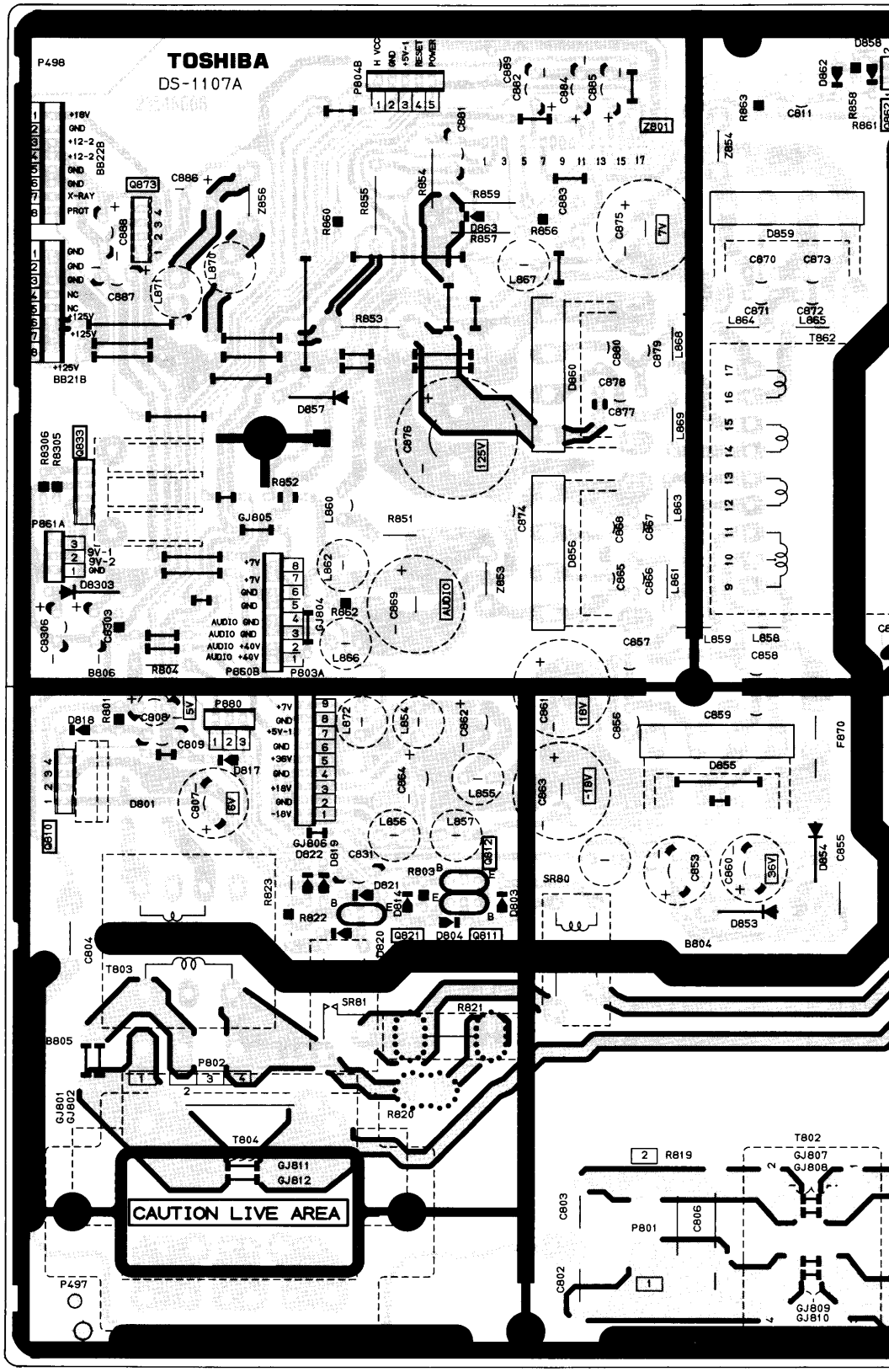
POWER BOARD PB8772A

BOTTOM (FOIL) SIDE



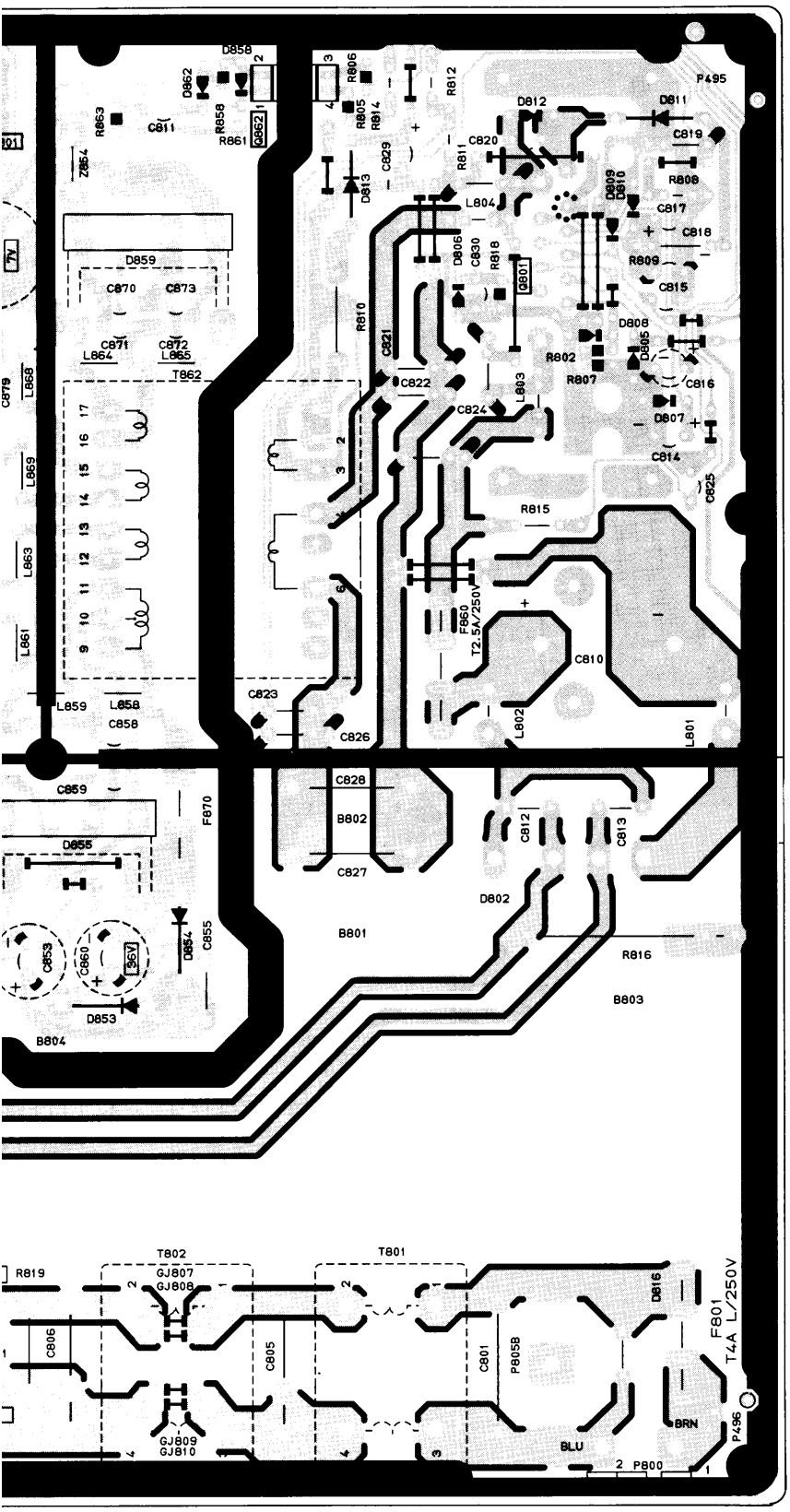
POWER BOARD PB8772A

BOTTOM (FOIL) SIDE



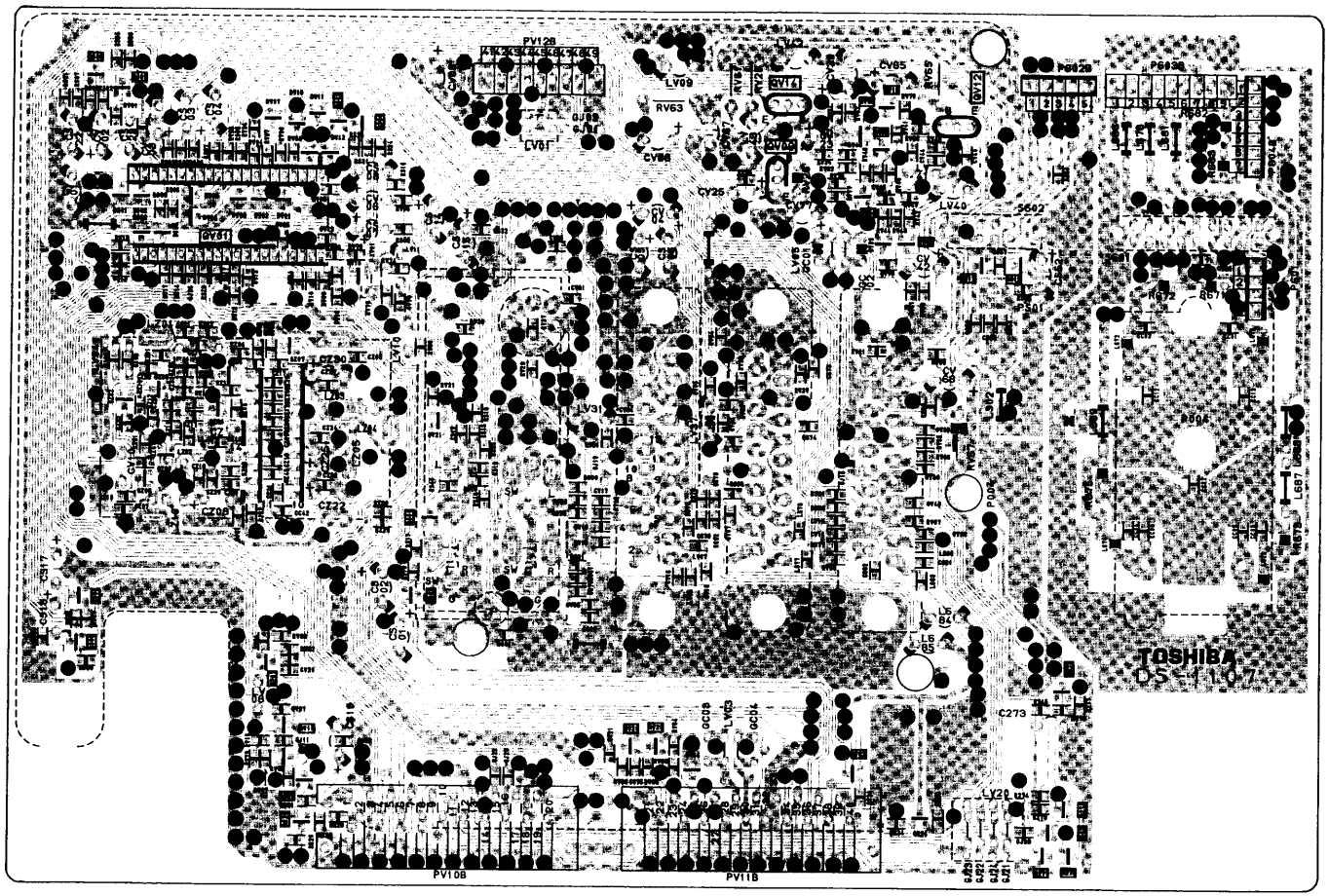
ɔARD PB8772A

M (FOIL) SIDE



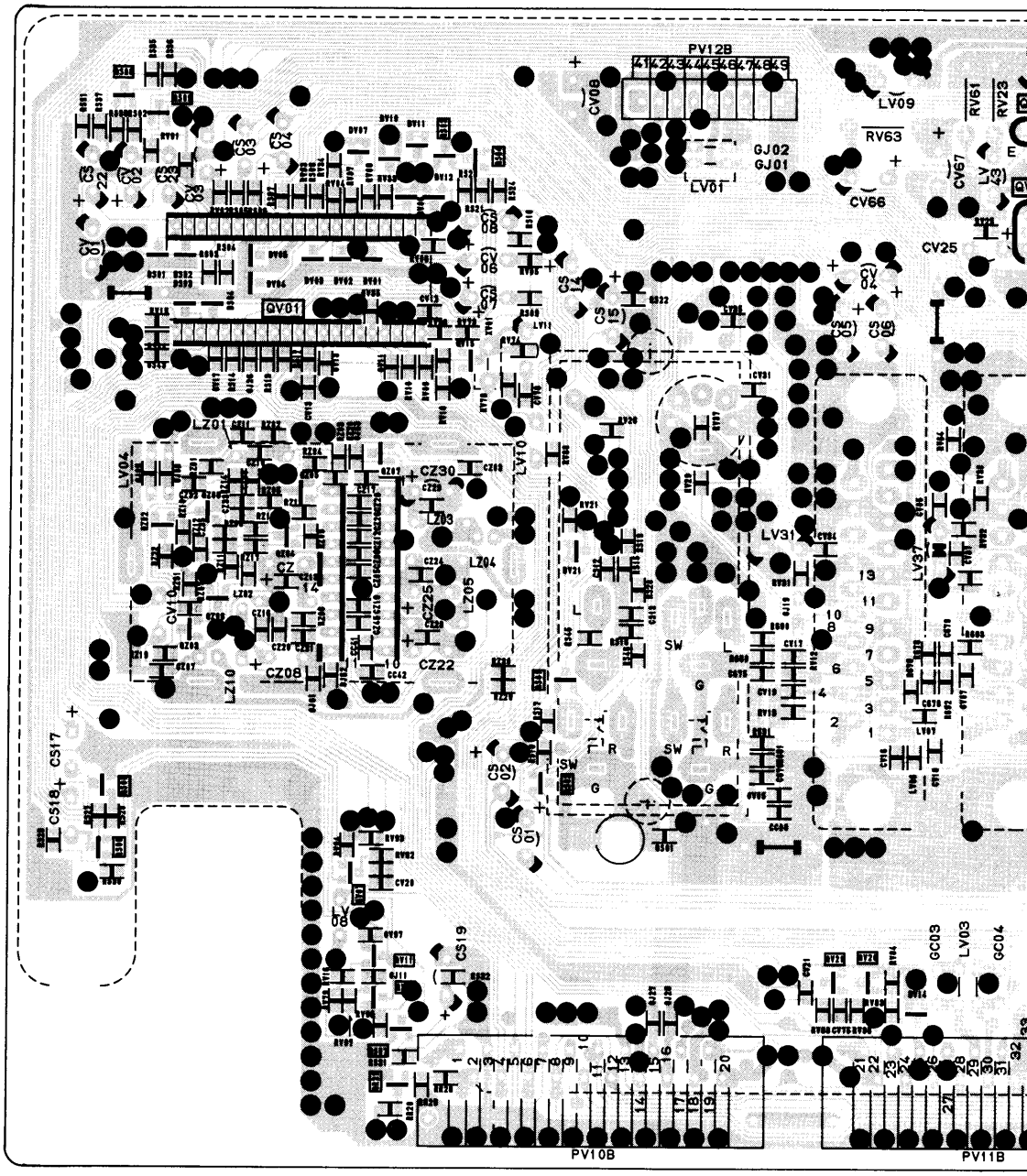
BACK/T BOARD PB8774A

BOTTOM (FOIL) SIDE



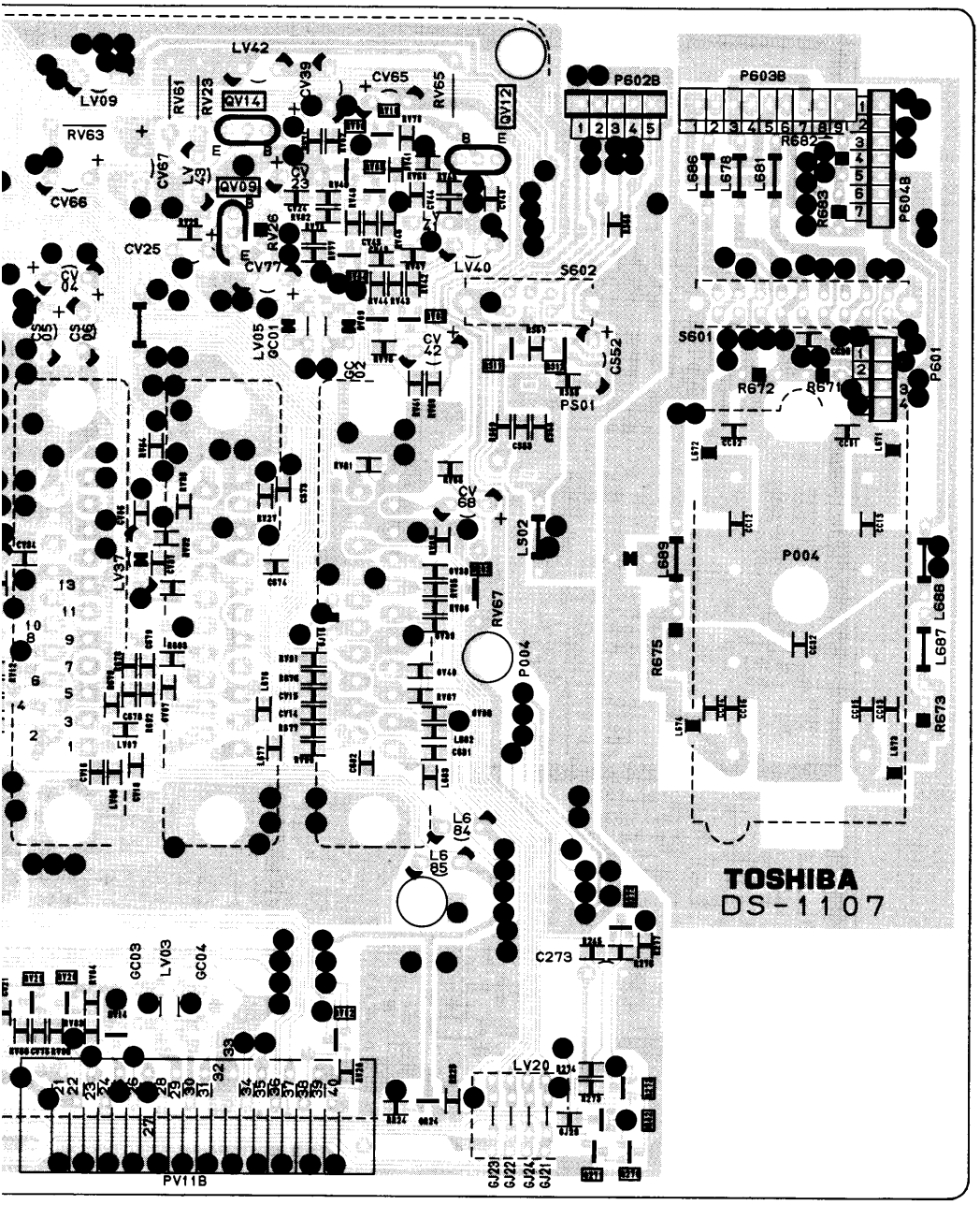
BACK/T BOARD PB87

BOTTOM (FOIL) SIDE



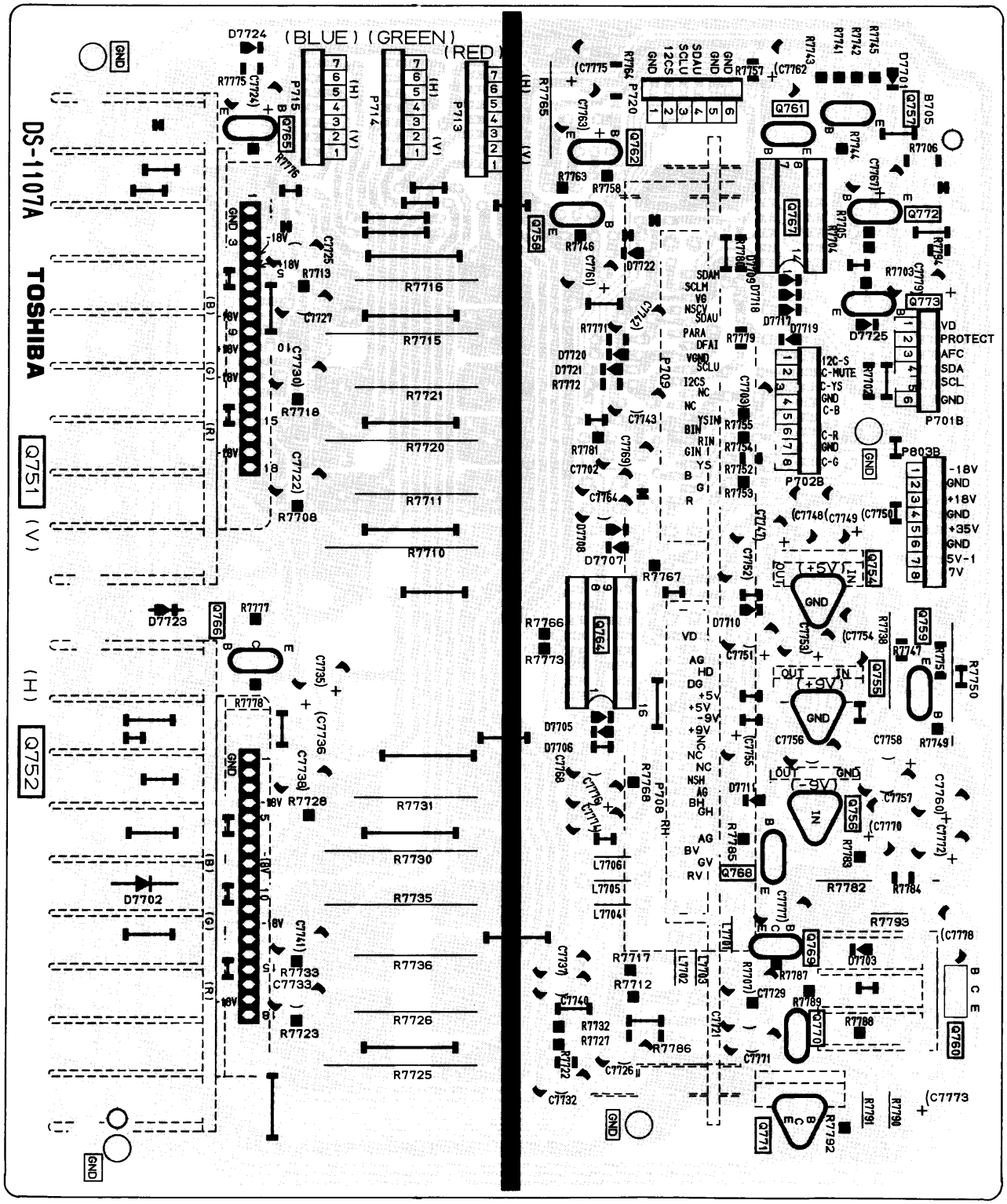
BOARD PB8774A

TTOM (FOIL) SIDE



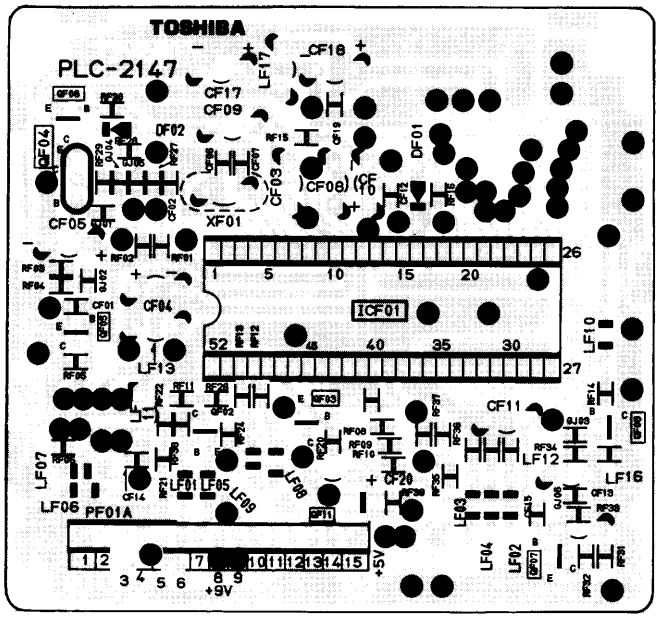
CONVER BOARD PB8773A

BOTTOM (FOIL) SIDE



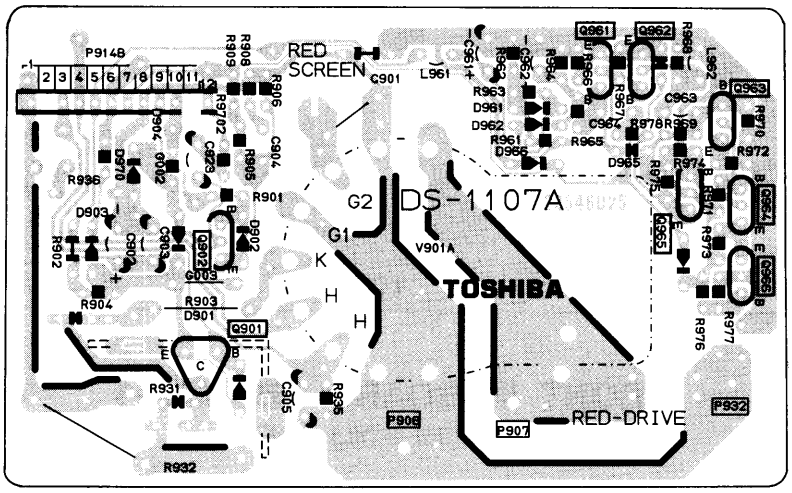
TEXT BOARD PB7928A

BOTTOM (FOIL) SIDE



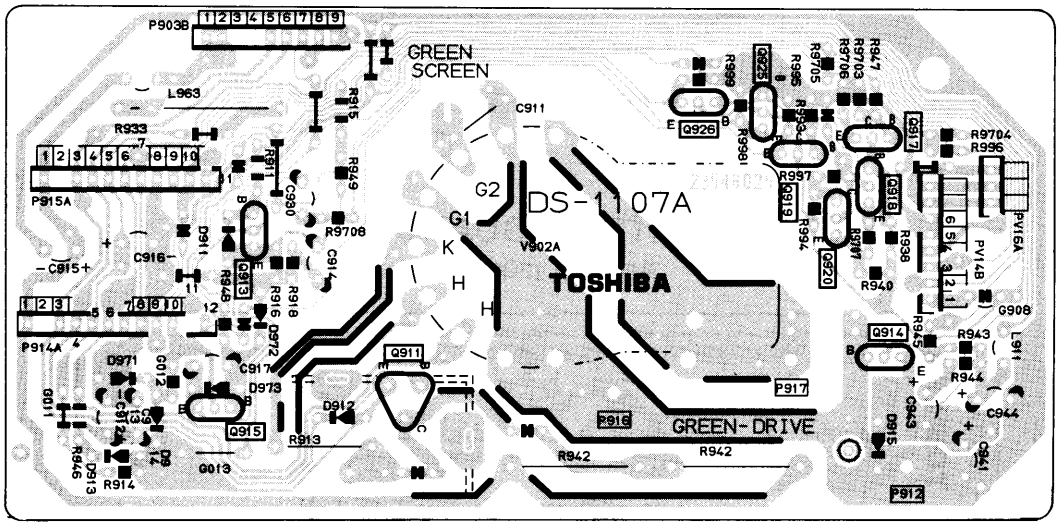
R-DRIVE BOARD PB8764A-1

BOTTOM (FOIL) SIDE



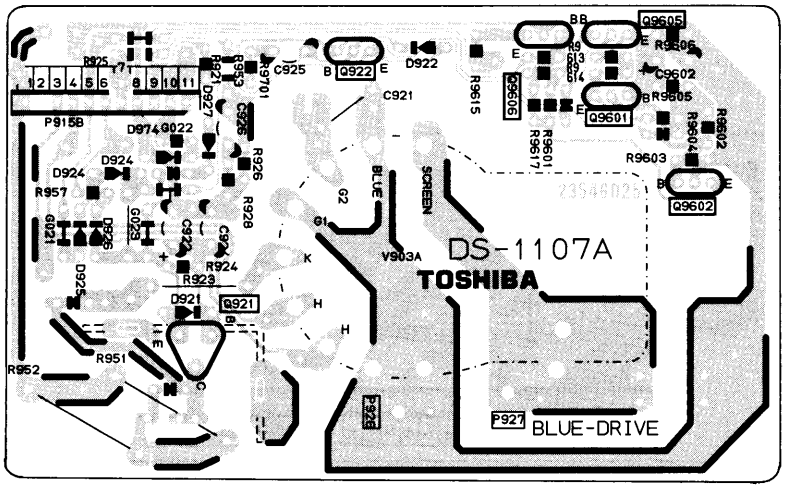
G-DRIVE BOARD PB8764A-2

BOTTOM (FOIL) SIDE



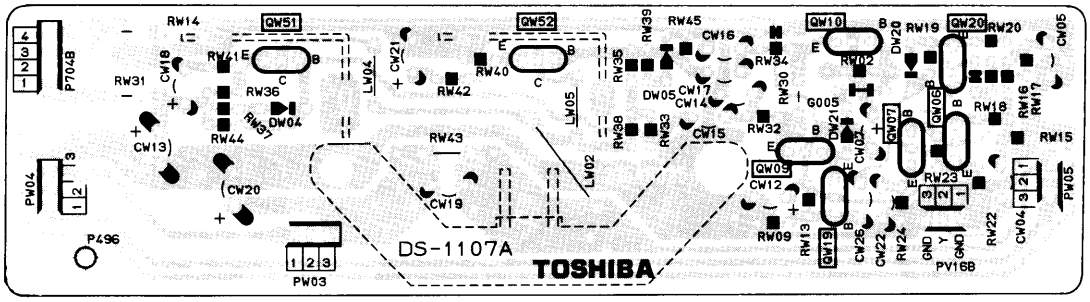
B-DRIVE BOARD PB8764A-3

BOTTOM (FOIL) SIDE



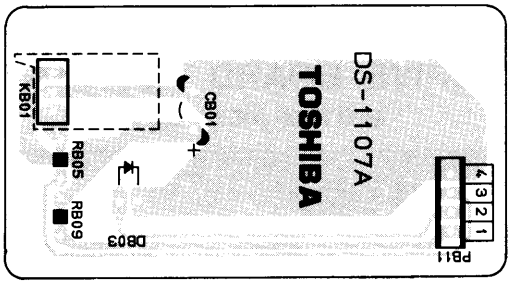
SVM BOARD PB8764A-4

BOTTOM (FOIL) SIDE



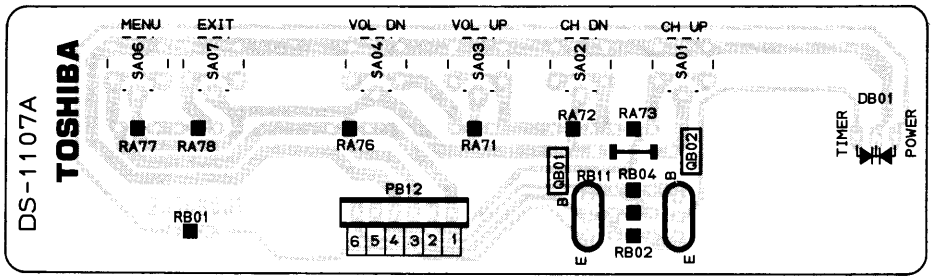
FRONT IN BOARD PB8765A-1

BOTTOM (FOIL) SIDE



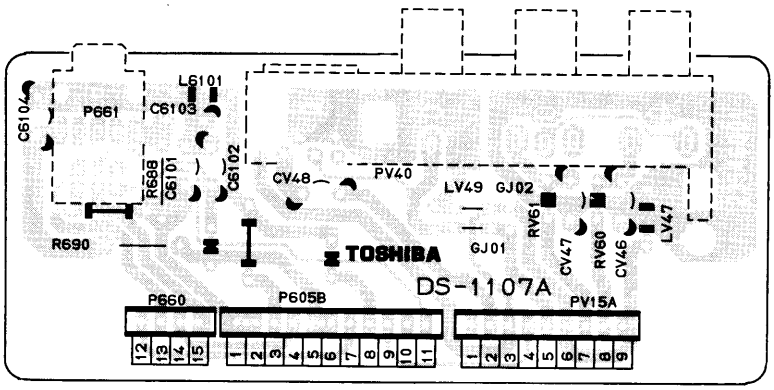
FRONT CONTROL BOARD PB8765A-2

BOTTOM (FOIL) SIDE



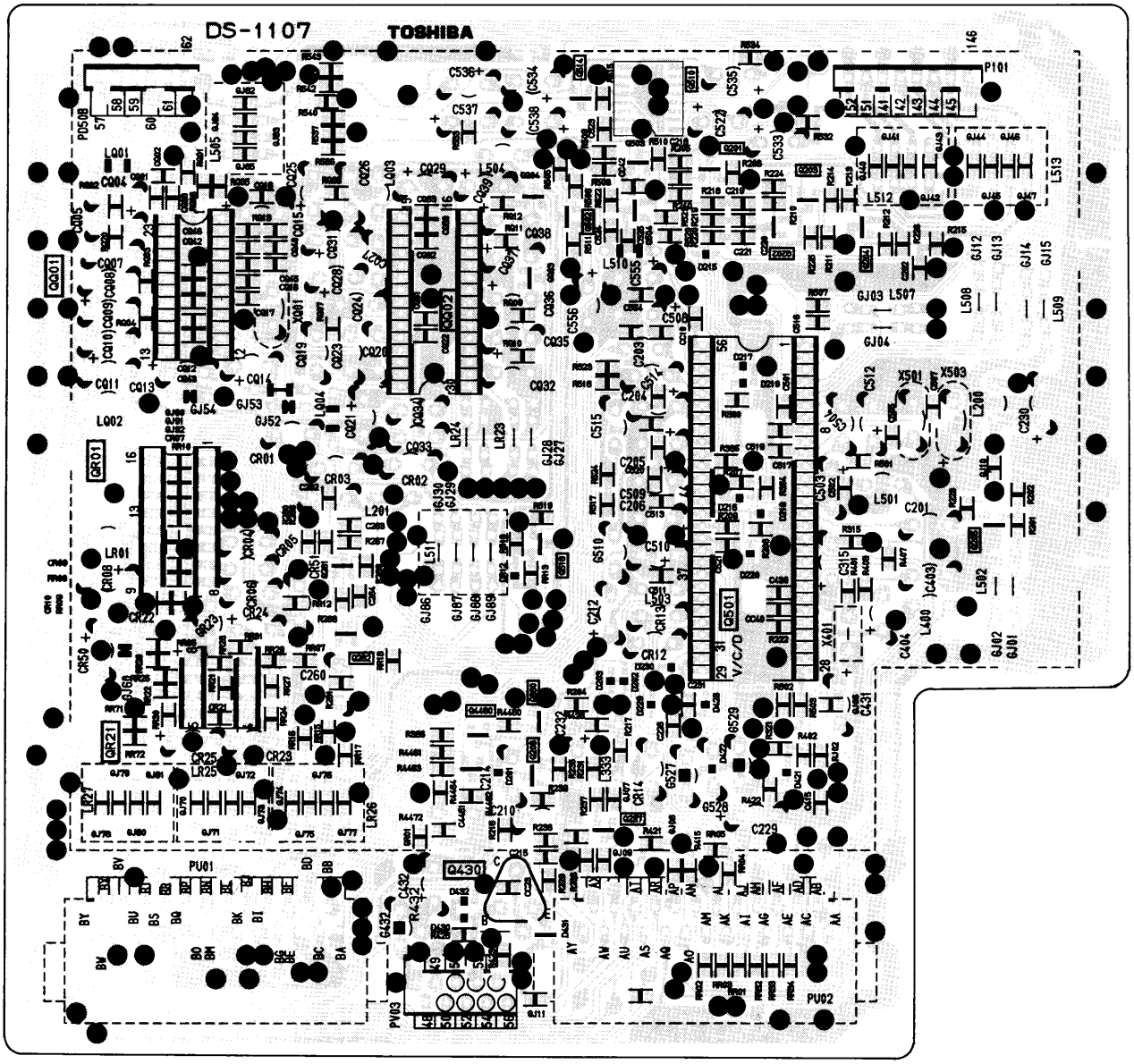
RMT IN BOARD PB8765A-3

BOTTOM (FOIL) SIDE



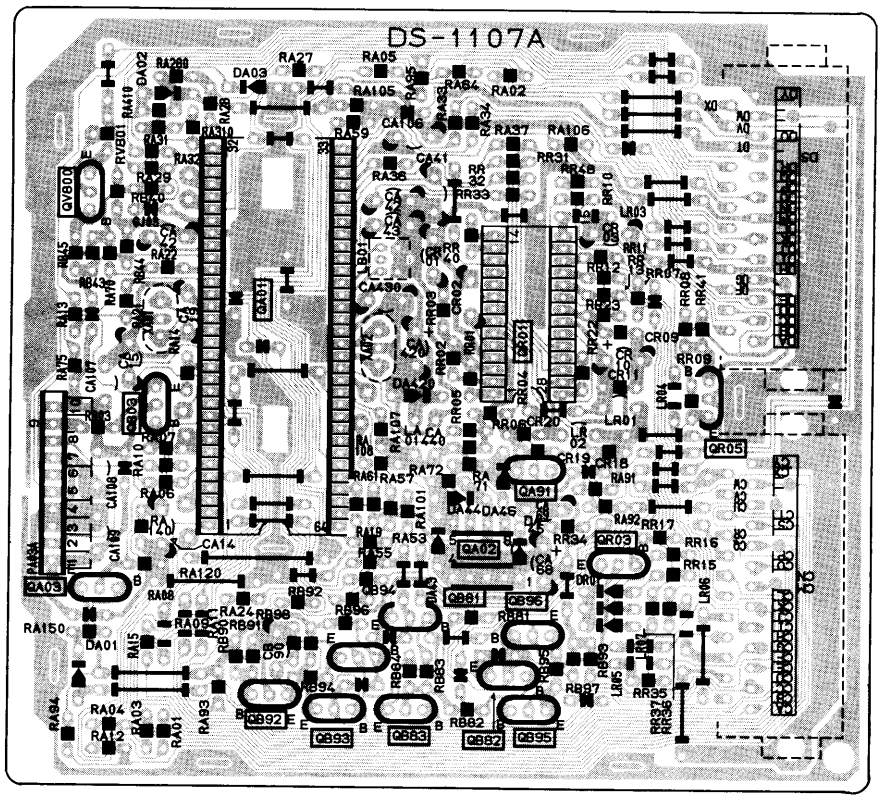
VCD BOARD PB8768A

BOTTOM (FOIL) SIDE



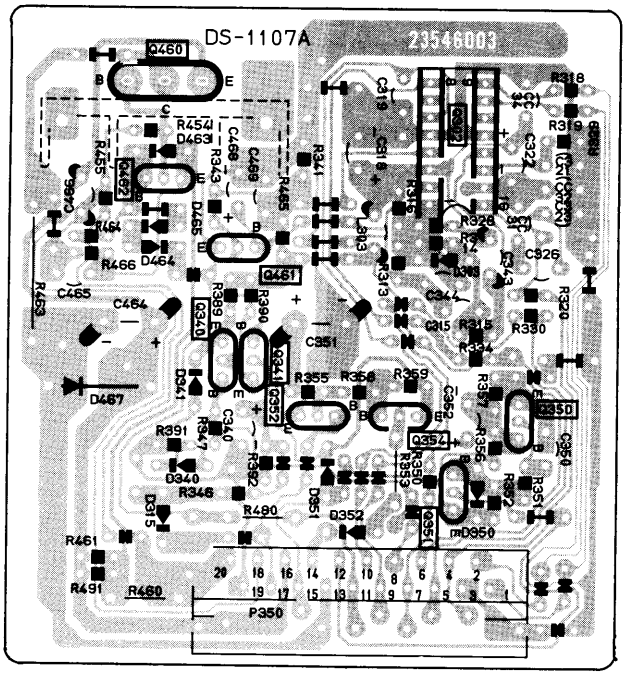
MICRO BOARD PB8767A-1

BOTTOM (FOIL) SIDE



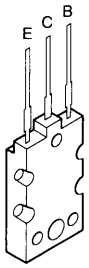
DPC BOARD PB8767A-2

BOTTOM (FOIL) SIDE

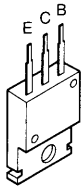


TERMINAL VIEW OF TRANSISTORS

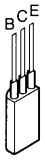
① 2SD2253
(old)
2SC5243



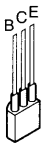
② 2SC3852
2SD1763A
2SC1569
2SC4544
2SA1788
2SA1306
2SA1186A



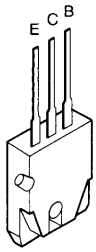
③ 2SC752GTM
2SC2482
2SC2655
2SC4721P



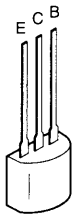
④ 2SC752
2SA562TM
2SA1015
2SC1815
2SC2878
2SC1740S
2SC2120
2SA9335



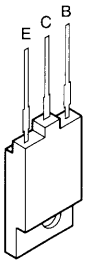
⑤ 2SA1788



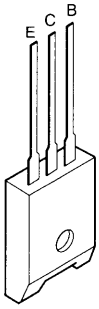
⑥ RN2203
RN2201
RN2004
RN1203
RN1204
RN2204
RN1205
RN1202
RN1201



⑦ 2SD1554
2SD2253
2SD1556
2SC5143
2SD2553



⑧ ON4409



MEMO

SPECIFICATIONS (Representative : 43PJ93G)

Rated voltage		AC 220 V – 240 V, 50/60 Hz
Power consumption (at AC 220 V, 50 Hz)		220 W
Dimensions (Width × Height × Depth)		959 mm × 1090 mm × 469 mm
Mass		61.0 kg
Screen size		Type 43 (109 cm)
Television system (Aerial input)	Channel coverage	**System** **Channel** **VHF** **UHF** **CATV** PAL B/G CCIR 2 – 12 21 – 69 X ~ Z+2, S1 ~ S41 PAL I UK — 21 – 69 — SECAM L CCIR * 21 – 69 * VHF : B-C ; 1-6, B-Q, 71-86 SECAM D/K OIRT 1 – 12 21 – 69 X1 ~ X19
	Special RF signal	**Colour system** **Sound system** 4.43NTSC 5.5/6.0/6.5 MHz PAL 60Hz 5.5/6.0/6.5 MHz
Colour system		PAL/SECAM/4.43NTSC/3.58NTSC
Sound output		14 W + 14 W
Accessories		• Remote control unit × 1 • Battery (R03, AAA) × 2

* Please refer to owner's manual in detail.

TOSHIBA CORPORATION
1-1, SHIBAURA 1-CHOME, MINATO-KU, TOKYO 105-8001, JAPAN

SCHEMATIC DIAGRAM **MODEL : 43PJ93B/G, 50PJ98B/G, 61PJ98B/G**
40PW03B/G, 43PJ03B/G

CAUTION: The international hazard symbols "⚠" in the schematic diagram and the parts list designate components which have special characteristics important for safety and should be replaced only with types identical to those in the original circuit or specified in the parts list. The mounting position of replacements is to be identical with originals. Before replacing any of these components, read carefully the PRODUCT SAFETY NOTICE on page 3. Do not degrade the safety of the receiver through improper servicing.

33200013

OBSERVATION OF VOLTAGES AND WAVEFORMS

1. Voltages read with VTVM from point shown to chassis ground, line voltage 220 volts, colour bar signal. Voltages reading may vary ±20%.
2. All waveforms are taken using a wide band oscilloscope and a low capacity probe.
3. Waveforms are taken using a standard colour bar signal.
4. Make sure that CONTRAST and COLOUR controls are in mid position and BRIGHTNESS control is almost in maximum position. Set other controls for best picture.

NOTES:

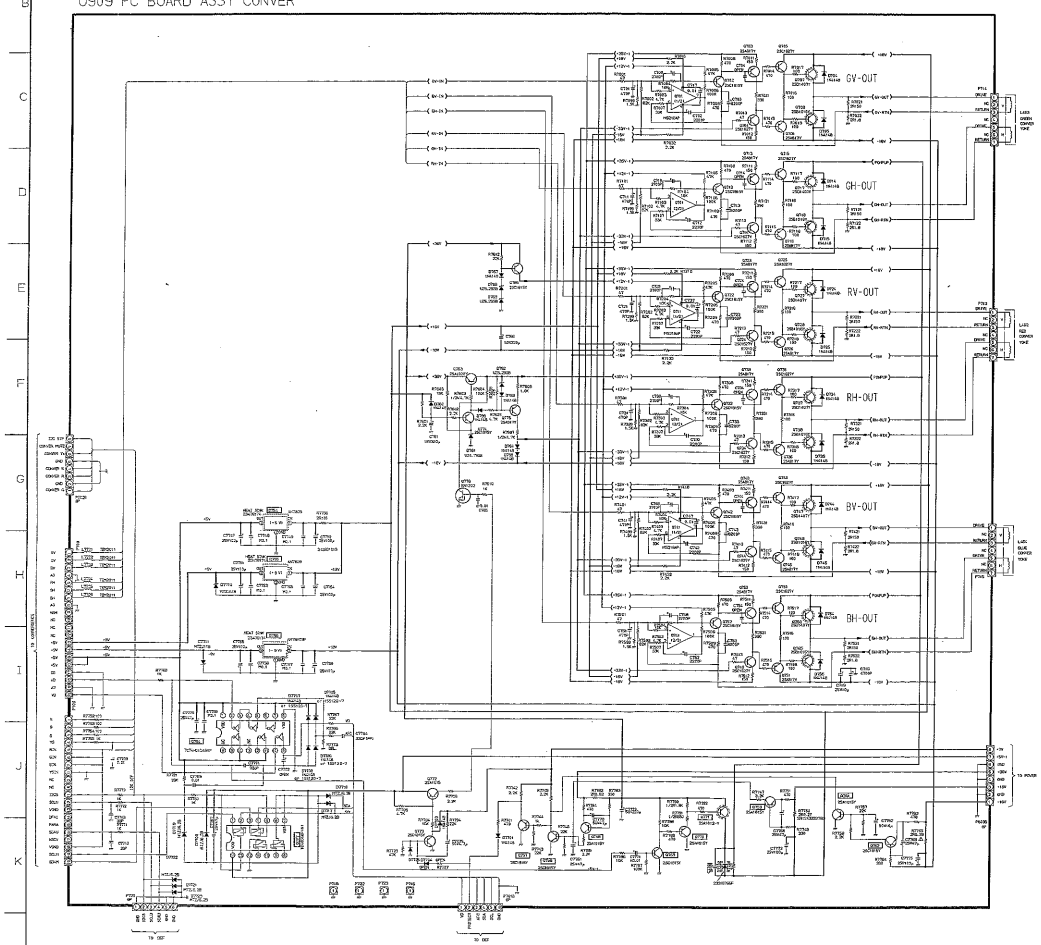
1. D.C. resistance value of a principal transformer is shown in this schematic diagram. These are measured for separated from the circuit.
2. The circuits are subject to change without notice.
3. ◓ : Solder links.

EXPRESSION

VALUE OF RESISTOR, CAPACITOR and INDUCTOR

1. Resistance is shown in ohm, k=1,000, M=1,000,000
2. Unless other wise noted in schematic, all capacitor values less than 1 are expressed in μF and the values more than 1 in pF.
3. Unless otherwise noted in schematic, all inductor values more than 1 are expressed in μH, and the values less than 1 in H.

U909 PC BOARD ASSY CONVER



CONVER OUT
43PJ93B/43PJ93G
50PJ98B/50PJ98G
61PJ98B/61PJ98G
40PW03B/40PW03G
43PJ03B/43PJ03G

SCHEMATIC DIAGRAM

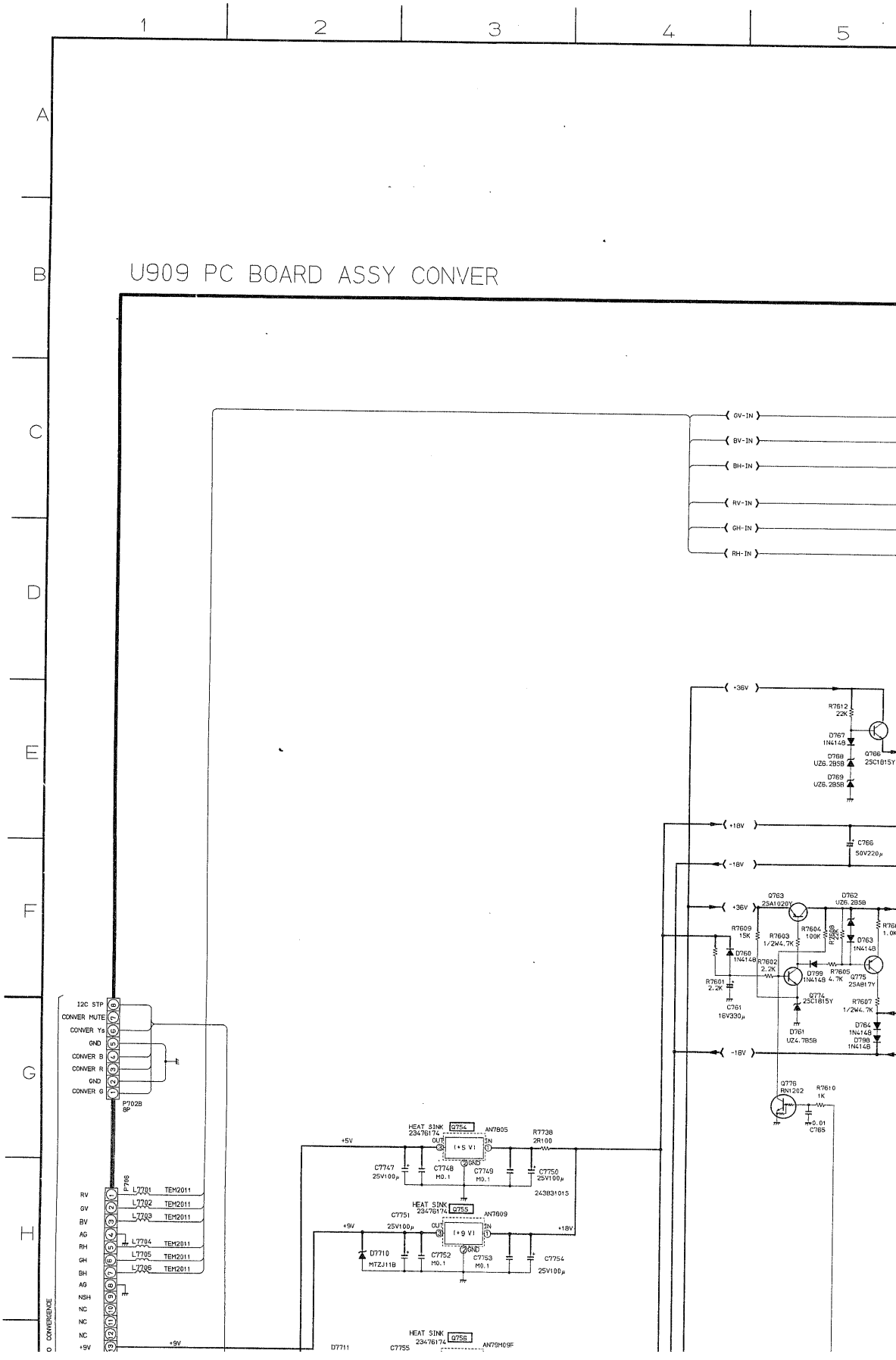
MODEL : 43PJ93B/G, 50PJ98B/G, 61PJ98B/G
40PW03B/G, 43PJ03B/G

CAUTION: The international hazard symbols "⚠" in the schematic diagram and the parts list designate components which have special characteristics important for safety and should be replaced only with types identical to those in the original circuit or specified in the parts list. The mounting position of replacements is to be identical with originals. Before replacing any of these components, read carefully the PRODUCT SAFETY NOTICE on page 3. Do not degrade the safety of the receiver through improper servicing.

OBSERVATION OF VOLTAGES AND WAV

1. Voltages read with VTVM from point sh volts, colour bar signal. Voltages readir
2. All waveforms are taken using a wide bar
3. Waveforms are taken using a standard c
4. Make sure that CONTRAST and COLO BRIGHTNESS control is almost in maxim picture.

33200013

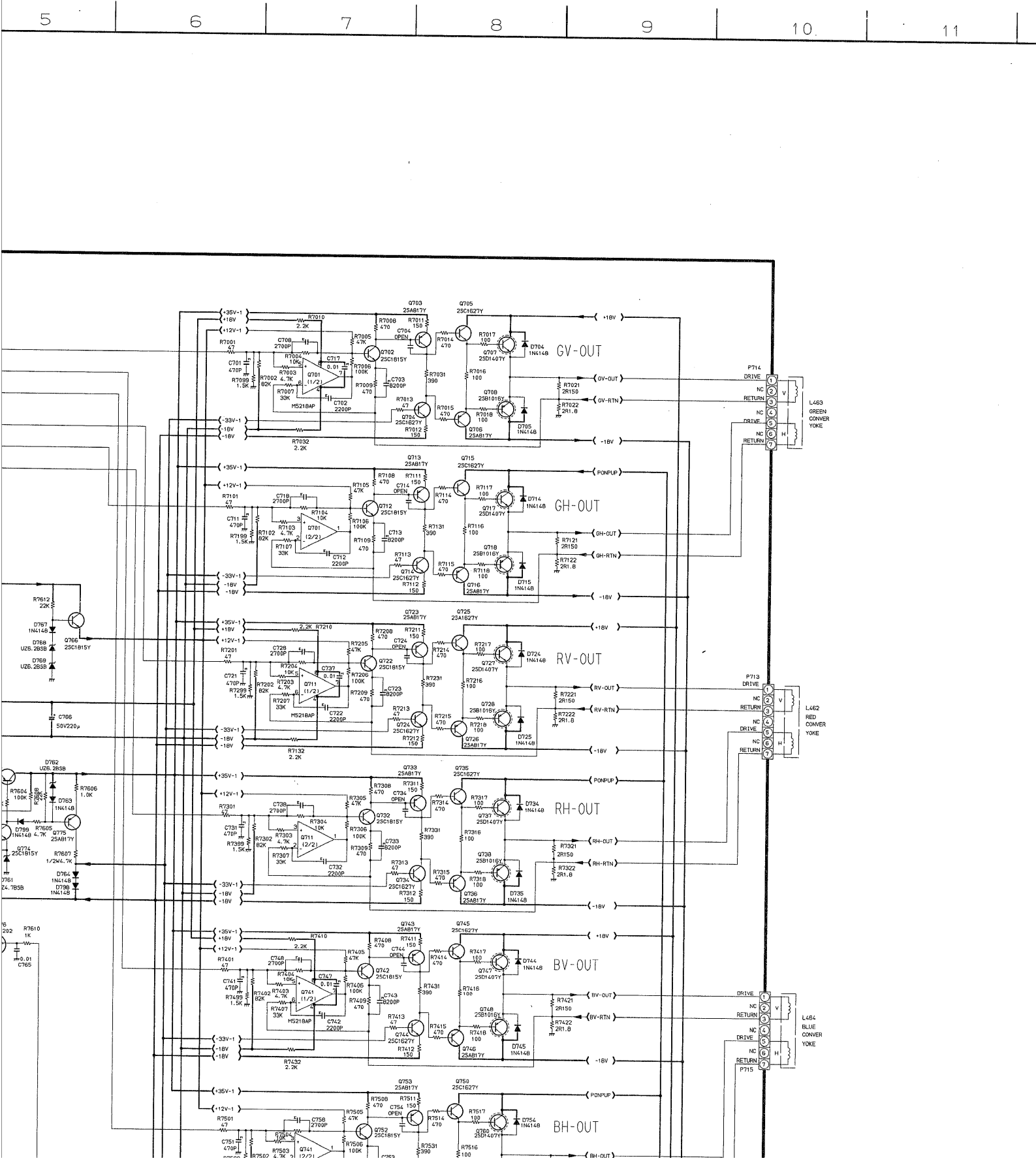


AGES AND WAVEFORMS

M from point shown to chassis ground, line voltage 220
Voltages reading may vary ±20%.
using a wide band oscilloscope and a low capacity probe.
sing a standard colour bar signal.
RAST and COLOUR controls are in mid position and
almost in maximum position. Set other controls for best

NOTES:

1. D.C. resistance value of a principal transformer is shown in this schematic diagram. These are measured for separated from the circuit.
2. The circuits are subject to change without notice.
3. ◓ : Solder links.

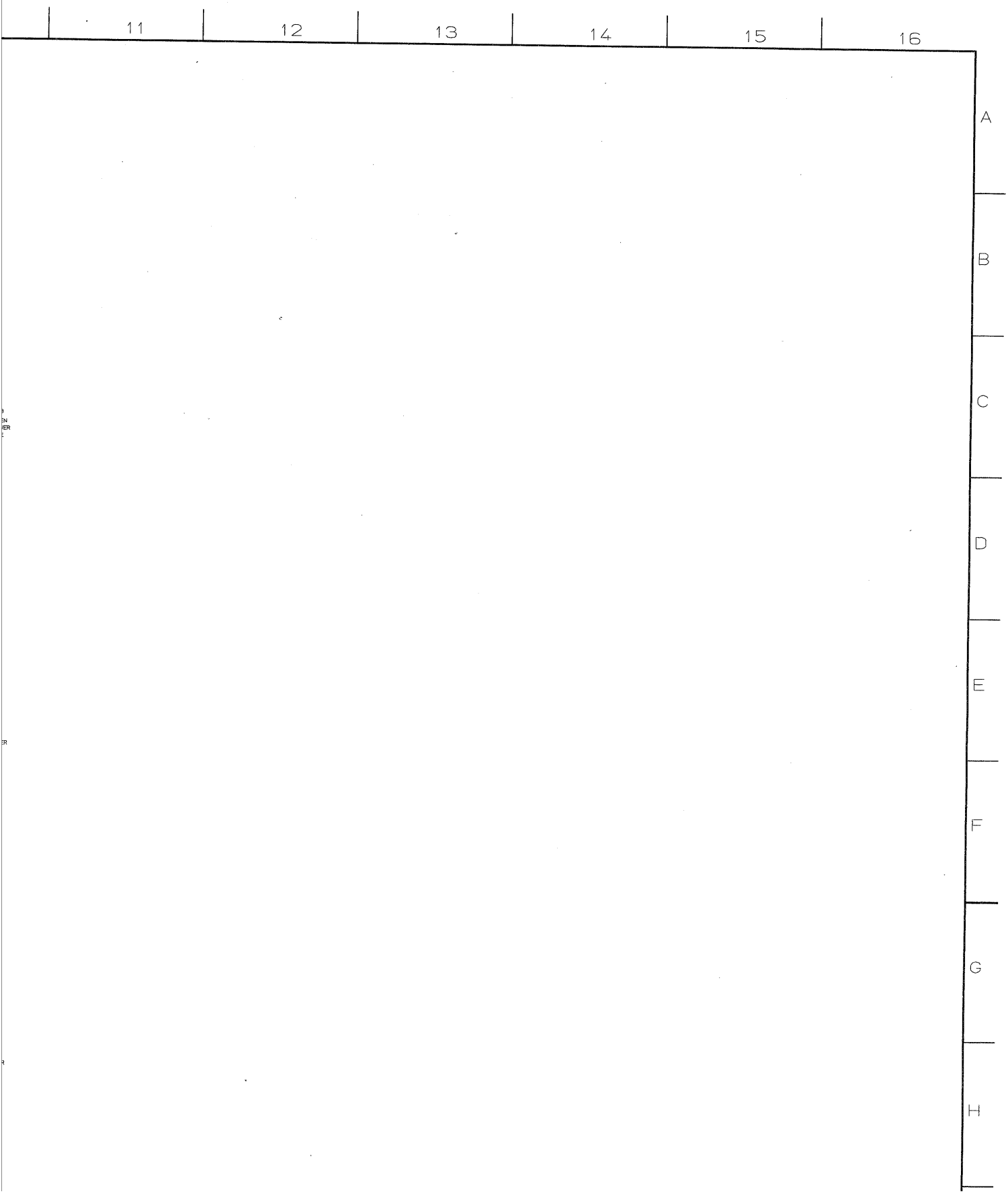


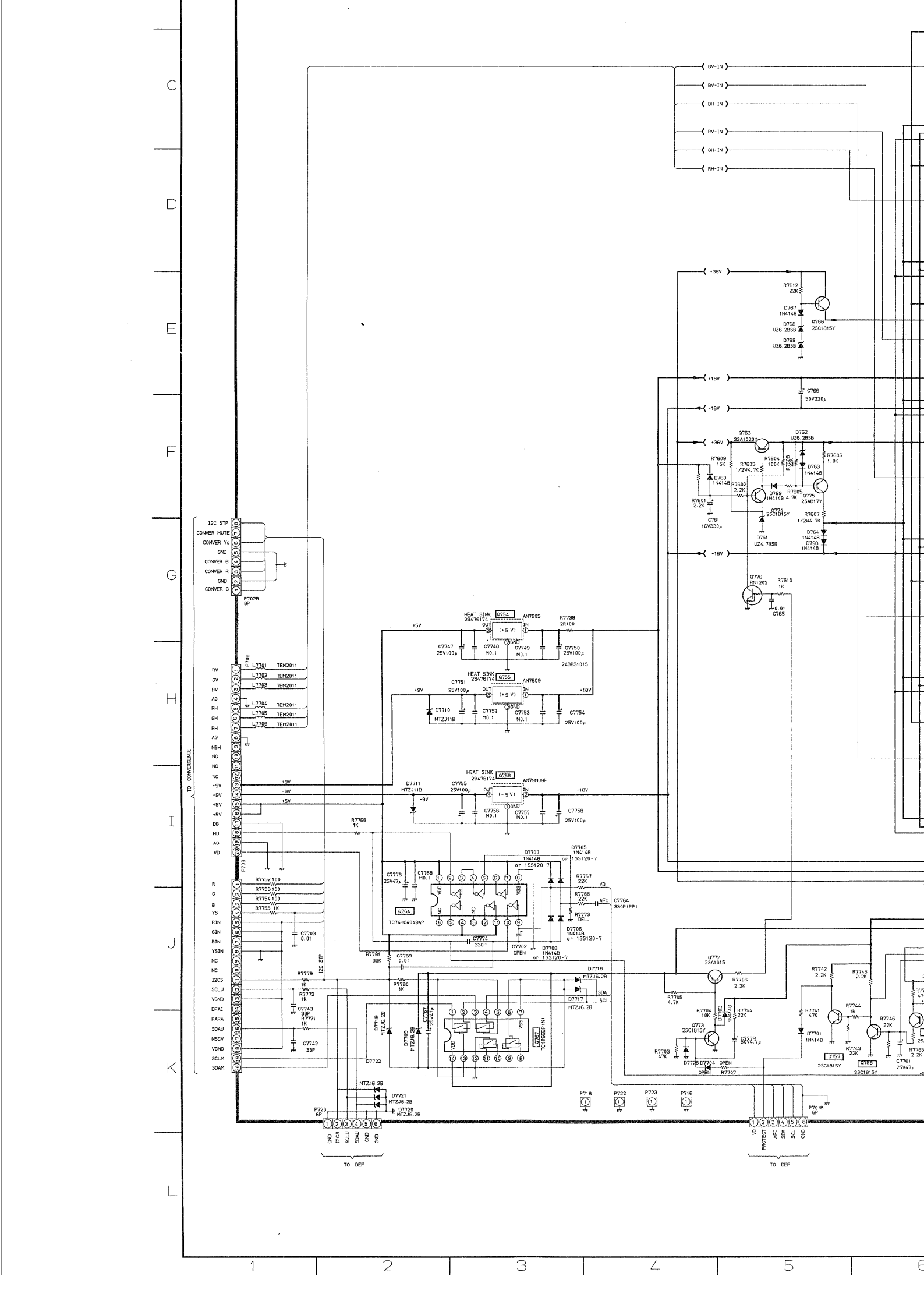
s schematic dia-

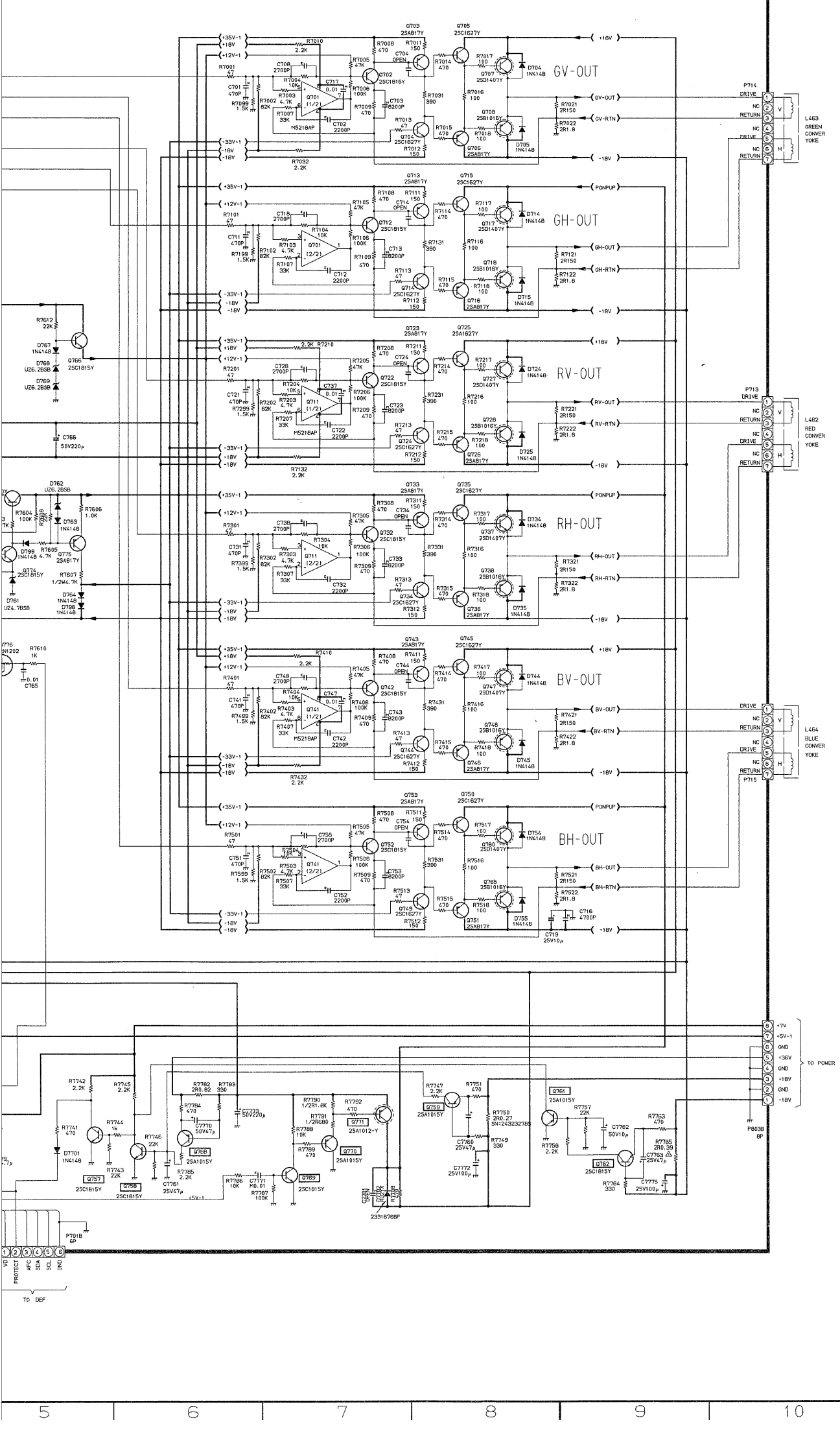
EXPRESSION

VALUE OF RESISTOR, CAPACITOR and INDUCTOR

1. Resistance is shown in ohm, k=1,000, M=1,000,000
2. Unless other wise noted in schematic, all capacitor values less than 1 are expressed in μF and the values more than 1 in pF.
3. Unless otherwise noted in schematic, all inductor values more than 1 are expressed in μH, and the values less than 1 in H.




GV-IN
BV-IN
BH-IN
RV-IN
GH-IN
RH-IN
+36V
+18V
-18V
I2C STP
CONVER MUTE
CONVER Ys
GND
CONVER B
CONVER R
GND
CONVER G
P702B
8P
TO CONVERGENCE
RV
GV
BV
AG
RH
GH
BH
AG
NSH
NC
NC
NC
+9V
-9V
+5V
+5V
DG
HD
AG
VD
R
G
B
YS
RIN
GIN
BIN
YSIN
NC
NC
I2CS
SCLU
VGND
DFAI
PARA
SDAU
NSCV
VGND
SCLM
SDAM
P708
P709
L7701 TEM2011
L7702 TEM2011
L7703 TEM2011
L7704 TEM2011
L7705 TEM2011
L7706 TEM2011
R7752 100
R7753 100
R7754 100
R7755 1K
C7703 0.01
C7743 33P
R7771 1K
C7742 33P
R7779 1K
R7772 1K
I2C STP
HEAT SINK 23476174
Q754 AN7805
(+5 V)
R7738 2R100
C7747 25V100μ
C7748 M0.1
C7749 M0.1
C7750 25V100μ
243B3101S
Q755 AN7809
(+9 V)
C7751 25V100μ
D7710 MTZJ11B
C7752 M0.1
C7753 M0.1
C7754 25V100μ
Q756 AN79M09F
(-9 V)
D7711 MTZJ11B
C7755 25V100μ
C7756 M0.1
C7757 M0.1
C7758 25V100μ
R7768 1K
D7707 1N4148 or 1SS120-7
C7776 25V47μ
C7768 M0.1
Q764 TC74HC4049AP
R7767 22K
R7766 22K
C7764 330P(PP)
R7773 DEL.
D7706 1N4148 or 1SS120-7
C7774 330P
C7702 OPEN
D7708 1N4148 or 1SS120-7
R7781 33K
C7769 0.01
D7718 MTZJ6.2B
R7780 1K
SDA
SCL
D7717 MTZJ6.2B
D7719 MTZJ6.2B
D7709 MTZJ6.2B
C7767 25V47μ
Q767 TC4066BFN(J)
D7722 MTZJ6.2B
D7721 MTZJ6.2B
D7720 MTZJ6.2B
P720 6P
GND I2CS SCLU SDAU GND GND
TO DEF
P718
P722
P723
P716
P719 6P
VD PROTECT AFC SDA SCL GND
TO DEF
R7612 22K
D767 1N4148
D768 UZ6.2B5B
D769 UZ6.2B5B
Q766 2SC1815Y
C766 50V220μ
Q763 2SA1020Y
D762 UZ6.2B5B
R7609 15K
R7604 100K
R7606 1.0K
R7603 1/2W4.7K
D763 1N4148
D760 1N4148
R7602 2.2K
D799 1N4148
R7605 4.7K
Q775 2SA817Y
R7601 2.2K
Q774 2SC1815Y
C761 16V330μ
R7607 1/2W4.7K
D761 UZ4.7B5B
D764 1N4148
D798 1N4148
Q776 RN1202
R7610 1K
C765 0.01
Q772 2SA1015
R7706 2.2K
R7705 4.7K
R7704 10K
D703 1N4148
R7794 22K
Q773 2SC1815Y
R7703 4.7K
C7779 50V4.7μ
D7725
D7704 OPEN
OPEN
R7707
R7742 2.2K
R7745 2.2K
R7741 470
R7744 1K
R7746 22K
R7743 22K
Q757 2SC1815Y
Q758 2SC1815Y
D7701 1N4148
C7761 25V47μ


GV-OUT
GH-OUT
RV-OUT
RH-OUT
BV-OUT
BH-OUT
M5218AP
L463 GREEN CONVER YOKE
L462 RED CONVER YOKE
L464 BLUE CONVER YOKE
P714
P713
P715
P803B
TO POWER
TO DEF
+35V-1
+18V
+12V-1
-33V-1
-18V
PONPUP
GV-RTN
GH-RTN
RV-RTN
RH-RTN
BV-RTN
BH-RTN
+7V
+5V-1
GND
+36V
+18V
P701B

L463
GREEN
CONVER
YOKE

L462
RED
CONVER
YOKE

L464
BLUE
CONVER
YOKE

TO POWER

CONVER OUT

43PJ93B/43PJ93G
50PJ98B/50PJ98G
61PJ98B/61PJ98G
40PW03B/40PW03G
43PJ03B/43PJ03G

PK3398

C D E F G H I J K L

10 11 12 13 14 15 16

TOSHIBA

FILE NO. 033-200013
SUPPLEMENT

SERVICE MANUAL

COLOUR TELEVISION

C8SS, C9SS, C9PJ Chassis

43PJ93B, 43PJ93G, 50PJ98B, 50PJ98G, 61PJ98B, 61PJ98G, 40PW03B, 40PW03G, 43PJ03B, 43PJ03G

– SUMMARY –

This supplement covers revised version of replacement parts list and PC Board Bottom view and Circuit Diagram for above model.
Use this service manual together with the service manual as follows.

43PJ93B, 43PJ93G	(File No. 030-9904)
50PJ98B, 50PJ98G	(File No. 030-9915)
61PJ98B, 61PJ98G	(File No. 030-9924)
40PW03B, 40PW03G	(File No. 030-200001)
43PJ03B, 43PJ03G	(File No. 033-200006)

PRINTED IN JAPAN, Dec., 2000 Ⓣ

CHASSIS REPLACEMENT PARTS LIST

[CONVER OUT UNIT]

Location No.	Part No.	Description
CAPACITORS		
C701	24591471	PF, 470pF
C702	24591222	PF, 2200pF
C703	24591822	PF, 8200pF
C708	24591272	PF, 2700pF
C711	24591471	PF, 470pF
C712	24591222	PF, 2200pF
C713	24591822	PF, 8200pF
C716	24591472	PF, 4700pF
C717	24591103	PF, 0.01μF
C718	24591272	PF, 2700pF
C719	24667100	EL, 10μF, ±20%, 25V
C721	24591471	PF, 470pF
C722	24591222	PF, 2200pF
C723	24591822	PF, 8200pF
C728	24591272	PF, 2700pF
C731	24591471	PF, 470pF
C732	24591222	PF, 2200pF
C733	24591822	PF, 8200pF
C737	24591103	PF, 0.01μF
C738	24591272	PF, 2700pF
C741	24591471	PF, 470pF
C742	24591222	PF, 2200pF
C743	24591822	PF, 8200pF
C747	24591103	PF, 0.01μF
C748	24591272	PF, 2700pF
C751	24591471	PF, 470pF
C752	24591222	PF, 2200pF
C753	24591822	PF, 8200pF
C758	24591272	PF, 2700pF
C761	24666331	EL, 330μF, ±20%, 16V
C765	24232103	CD, 0.01μF, +80%, -20%
C766	24669221	EL, 220μF, ±20%, 50V
C7703	24232103	CD, 0.01μF, +80%, -20%
C7742	24436330	CD, 33pF
C7743	24436330	CD, 33pF
C7747	24667101	EL, 100μF, ±20%, 25V
C7748	24567104	PF, 0.1μF
C7749	24567104	PF, 0.1μF
C7750	24667101	EL, 100μF, ±20%, 25V
C7751	24667101	EL, 100μF, ±20%, 25V
C7752	24567104	PF, 0.1μF
C7753	24567104	PF, 0.1μF
C7754	24667101	EL, 100μF, ±20%, 25V
C7755	24667101	EL, 100μF, ±20%, 25V
C7756	24567104	PF, 0.1μF
C7757	24567104	PF, 0.1μF
C7758	24667101	EL, 100μF, ±20%, 25V
C7760	24667470	EL, 47μF, ±20%, 25V
C7761	24667470	EL, 47μF, ±20%, 25V
C7762	24669100	EL, 10μF, ±20%, 50V
C7763	24667470	EL, 47μF, ±20%, 25V
C7764	24598331	PF, 330pF
C7767	24667470	EL, 47μF, ±20%, 25V
C7768	24567104	PF, 0.1μF
C7769	24232103	CD, 0.01μF, +80%, -20%
C7770	24669470	EL, 47μF, ±20%, 50V
C7771	24567103	PF, 0.01μF
C7772	24667101	EL, 100μF, ±20%, 25V
C7773	24669221	EL, 220μF, ±20%, 50V

Location No.	Part No.	Description
C7774	24436331	CD, 330pF
C7775	24667101	EL, 100μF, ±20%, 25V
C7776	24667470	EL, 47μF, ±20%, 25V
C7779	24669479	EL, 4.7μF, ±20%, 50V
RESISTORS		
R7001	24366470	CF, 47 ohm
R7002	24366823	CF, 82k ohm
R7003	24366472	CF, 4700 ohm
R7004	24366103	CF, 10k ohm
R7005	24366473	CF, 47k ohm
R7006	24366104	CF, 100k ohm
R7007	24366333	CF, 33k ohm
R7008	24366471	CF, 470 ohm
R7009	24366471	CF, 470 ohm
R7010	24366222	CF, 2200 ohm
R7011	24366151	CF, 150 ohm
R7012	24366151	CF, 150 ohm
R7013	24366470	CF, 47 ohm
R7014	24366471	CF, 470 ohm
R7015	24366471	CF, 470 ohm
R7016	24366101	CF, 100 ohm
R7017	24366101	CF, 100 ohm
R7018	24366101	CF, 100 ohm
R7021	24554151	OMF, 150 ohm, 2W
R7022	24323189	MF, 1.8 ohm, 2W
R7031	24366391	CF, 390 ohm
R7032	24366222	CF, 2200 ohm
R7099	24366152	CF, 1500 ohm
R7101	24366470	CF, 47 ohm
R7102	24366823	CF, 82k ohm
R7103	24366472	CF, 4700 ohm
R7104	24366103	CF, 10k ohm
R7105	24366473	CF, 47k ohm
R7106	24366104	CF, 100k ohm
R7107	24366333	CF, 33k ohm
R7108	24366471	CF, 470 ohm
R7109	24366471	CF, 470 ohm
R7111	24366151	CF, 150 ohm
R7112	24000151	MF, 750 ohm, 1/4W
R7113	24366470	CF, 47 ohm
R7114	24366471	CF, 470 ohm
R7115	24366471	CF, 470 ohm
R7116	24366101	CF, 100 ohm
R7117	24366101	CF, 100 ohm
R7118	24366101	CF, 100 ohm
R7121	24554151	OMF, 150 ohm, 2W
R7122	24323189	MF, 1.8 ohm, 2W
R7131	24366391	CF, 390 ohm
R7132	24366222	CF, 2200 ohm
R7199	24366152	CF, 1500 ohm
R7201	24366470	CF, 47 ohm
R7202	24366823	CF, 82k ohm
R7203	24366472	CF, 4700 ohm
R7204	24366103	CF, 10k ohm
R7205	24366473	CF, 47k ohm
R7206	24366104	CF, 100k ohm
R7207	24366333	CF, 33k ohm
R7208	24366471	CF, 470 ohm
R7209	24366471	CF, 470 ohm

Location No.	Part No.	Description
R7210	24366222	CF, 2200 ohm
R7211	24366151	CF, 150 ohm
R7212	24366151	CF, 150 ohm
R7213	24366470	CF, 47 ohm
R7214	24366471	CF, 470 ohm
R7215	24366471	CF, 470 ohm
R7216	24366101	CF, 100 ohm
R7217	24366101	CF, 100 ohm
R7218	24366101	CF, 100 ohm
R7221	24554151	OMF, 150 ohm, 2W
R7222	24323189	MF, 1.8 ohm, 2W
R7231	24366391	CF, 390 ohm
R7299	24366152	CF, 1500 ohm
R7301	24366470	CF, 47 ohm
R7302	24366823	CF, 82k ohm
R7303	24366472	CF, 4700 ohm
R7304	24366103	CF, 10k ohm
R7305	24366473	CF, 47k ohm
R7306	24366104	CF, 100k ohm
R7307	24366333	CF, 33k ohm
R7308	24366471	CF, 470 ohm
R7309	24366471	CF, 470 ohm
R7311	24366151	CF, 150 ohm
R7312	24366151	CF, 150 ohm
R7313	24366470	CF, 47 ohm
R7314	24366471	CF, 470 ohm
R7315	24366471	CF, 470 ohm
R7316	24366101	CF, 100 ohm
R7317	24366101	CF, 100 ohm
R7318	24366101	CF, 100 ohm
R7321	24554151	OMF, 150 ohm, 2W
R7322	24323189	MF, 1.8 ohm, 2W
R7331	24366391	CF, 390 ohm
R7399	24366152	CF, 1500 ohm
R7401	24366470	CF, 47 ohm
R7402	24366823	CF, 82k ohm
R7403	24366472	CF, 4700 ohm
R7404	24366103	CF, 10k ohm
R7405	24366473	CF, 47k ohm
R7406	24366104	CF, 100k ohm
R7407	24366333	CF, 33k ohm
R7408	24366471	CF, 470 ohm
R7409	24366471	CF, 470 ohm
R7410	24366222	CF, 2200 ohm
R7411	24366151	CF, 150 ohm
R7412	24366151	CF, 150 ohm
R7413	24366470	CF, 47 ohm
R7414	24366471	CF, 470 ohm
R7415	24366471	CF, 470 ohm
R7416	24366101	CF, 100 ohm
R7417	24366101	CF, 100 ohm
R7418	24366101	CF, 100 ohm
R7421	24554151	OMF, 150 ohm, 2W
R7422	24323189	MF, 1.8 ohm, 2W
R7431	24366391	CF, 390 ohm
R7432	24366222	CF, 2200 ohm
R7499	24366152	CF, 1500 ohm
R7501	24366470	CF, 47 ohm
R7502	24366823	CF, 82k ohm
R7503	24366472	CF, 4700 ohm
R7504	24366103	CF, 10k ohm
R7505	24366473	CF, 47k ohm
R7506	24366104	CF, 100k ohm
R7507	24366333	CF, 33k ohm

Location No.	Part No.	Description
R7508	24366471	CF, 470 ohm
R7509	24366471	CF, 470 ohm
R7511	24366151	CF, 150 ohm
R7512	24366151	CF, 150 ohm
R7513	24366470	CF, 47 ohm
R7514	24366471	CF, 470 ohm
R7515	24366471	CF, 470 ohm
R7516	24366101	CF, 100 ohm
R7517	24366101	CF, 100 ohm
R7518	24366101	CF, 100 ohm
R7521	24554151	OMF, 150 ohm, 2W
R7522	24323189	MF, 1.8 ohm, 2W
R7531	24366391	CF, 390 ohm
R7599	24366152	CF, 1500 ohm
R7601	24366222	CF, 2200 ohm
R7602	24366222	CF, 2200 ohm
R7603	24381472	OMF, 4700 ohm, 1/2W
R7604	24366104	CF, 100k ohm
R7605	24366472	CF, 4700 ohm
R7606	24366102	CF, 1k ohm
R7607	24381472	OMF, 4700 ohm, 1/2W
R7608	24366223	CF, 22k ohm
R7609	24366153	CF, 15k ohm
R7612	24366223	CF, 22k ohm
R7703	24366473	CF, 47k ohm
R7704	24366103	CF, 10k ohm
R7705	24366472	CF, 4700 ohm
R7706	24366222	CF, 2200 ohm
R7708	24366471	CF, 470 ohm
R7738	24554101	OMF, 100 ohm, 2W
R7741	24366471	CF, 470 ohm
R7742	24366222	CF, 2200 ohm
R7743	24366223	CF, 22k ohm
R7744	24366102	CF, 1k ohm
R7745	24366222	CF, 2200 ohm
R7746	24366223	CF, 22k ohm
R7747	24366222	CF, 2200 ohm
R7749	24366331	CF, 330 ohm
R7750	24323278	MF, 0.27 ohm, 2W
R7751	24366471	CF, 470 ohm
R7752	24366101	CF, 100 ohm
R7753	24366101	CF, 100 ohm
R7754	24366101	CF, 100 ohm
R7755	24366102	CF, 1k ohm
R7757	24366223	CF, 22k ohm
R7758	24366222	CF, 2200 ohm
R7763	24366471	CF, 470 ohm
R7764	24366331	CF, 330 ohm
R7765	24339398	MF, 0.39 ohm, 2W
R7766	24366223	CF, 22k ohm
R7767	24366223	CF, 22k ohm
R7768	24366102	CF, 1k ohm
R7771	24366102	CF, 1k ohm
R7772	24366102	CF, 1k ohm
R7779	24366102	CF, 1k ohm
R7780	24366102	CF, 1k ohm
R7781	24366333	CF, 33k ohm
R7782	24339828	MF, 0.82 ohm, 2W
R7783	24366331	CF, 330 ohm
R7784	24366471	CF, 470 ohm
R7785	24366222	CF, 2200 ohm
R7786	24366103	CF, 10k ohm
R7787	24366104	CF, 100k ohm
R7788	24366103	CF, 10k ohm

Location No.	Part No.	Description
R7789	24366471	CF, 470 ohm
R7790	24552182	OMF, 1800 ohm, 1/2W
R7791	24552681	OMF, 680 ohm, 1/2W
R7792	24366471	CF, 470 ohm
R7794	24366223	CF, 22k ohm
COILS & TRANSFORMERS		
L7701	23103859	Coil (Ferrite Bead), TEM2011
L7702	23103859	Coil (Ferrite Bead), TEM2011
L7703	23103859	Coil (Ferrite Bead), TEM2011
L7704	23103859	Coil (Ferrite Bead), TEM2011
L7705	23103859	Coil (Ferrite Bead), TEM2011
L7706	23103859	Coil (Ferrite Bead), TEM2011
SEMICONDUCTORS		
Q701	23319808	IC, M5218AP
Q702	A6317440	Transistor, 2SC1815-Y
Q703	A6531140	Transistor, 2SA817-Y
Q704	A6314440	Transistor, 2SC1627-Y
Q705	A6314440	Transistor, 2SC1627-Y
Q706	A6531140	Transistor, 2SA817-Y
Q707	A6869040	Transistor, 2SD1407A-Y
Q707B	23035310	Screw, BTB3X10SZN
Q708	A6640600	Transistor, 2SB1016A-Y
Q708B	23035310	Screw, BTB3X10SZN
Q711	23319808	IC, M5218AP
Q712	A6317440	Transistor, 2SC1815-Y
Q713	A6531140	Transistor, 2SA817-Y
Q714	A6314440	Transistor, 2SC1627-Y
Q715	A6314440	Transistor, 2SC1627-Y
Q716	A6531140	Transistor, 2SA817-Y
Q717	A6869040	Transistor, 2SD1407A-Y
Q717B	23035310	Screw, BTB3X10SZN
Q718	A6640600	Transistor, 2SB1016A-Y
Q718B	23035310	Screw, BTB3X10SZN
Q722	A6317440	Transistor, 2SC1815-Y
Q723	A6531140	Transistor, 2SA817-Y
Q724	A6314440	Transistor, 2SC1627-Y
Q725	A6314440	Transistor, 2SC1627-Y
Q726	A6531140	Transistor, 2SA817-Y
Q727	A6869040	Transistor, 2SD1407A-Y
Q727B	23035310	Screw, BTB3X10SZN
Q728	A6640600	Transistor, 2SB1016A-Y
Q728B	23035310	Screw, BTB3X10SZN
Q732	A6317440	Transistor, 2SC1815-Y
Q733	A6531140	Transistor, 2SA817-Y
Q734	A6314440	Transistor, 2SC1627-Y
Q735	A6314440	Transistor, 2SC1627-Y
Q736	A6531140	Transistor, 2SA817-Y
Q737	A6869040	Transistor, 2SD1407A-Y
Q737B	23035310	Screw, BTB3X10SZN
Q738	A6640600	Transistor, 2SB1016A-Y
Q738B	23035310	Screw, BTB3X10SZN
Q741	23319808	IC, M5218AP
Q742	A6317440	Transistor, 2SC1815-Y
Q743	A6531140	Transistor, 2SA817-Y
Q744	A6314440	Transistor, 2SC1627-Y
Q745	A6314440	Transistor, 2SC1627-Y
Q746	A6531140	Transistor, 2SA817-Y
Q747	A6869040	Transistor, 2SD1407A-Y
Q747B	23035310	Screw, BTB3X10SZN
Q748	A6640600	Transistor, 2SB1016A-Y
Q748B	23035310	Screw, BTB3X10SZN
Q749	A6314440	Transistor, 2SC1627-Y

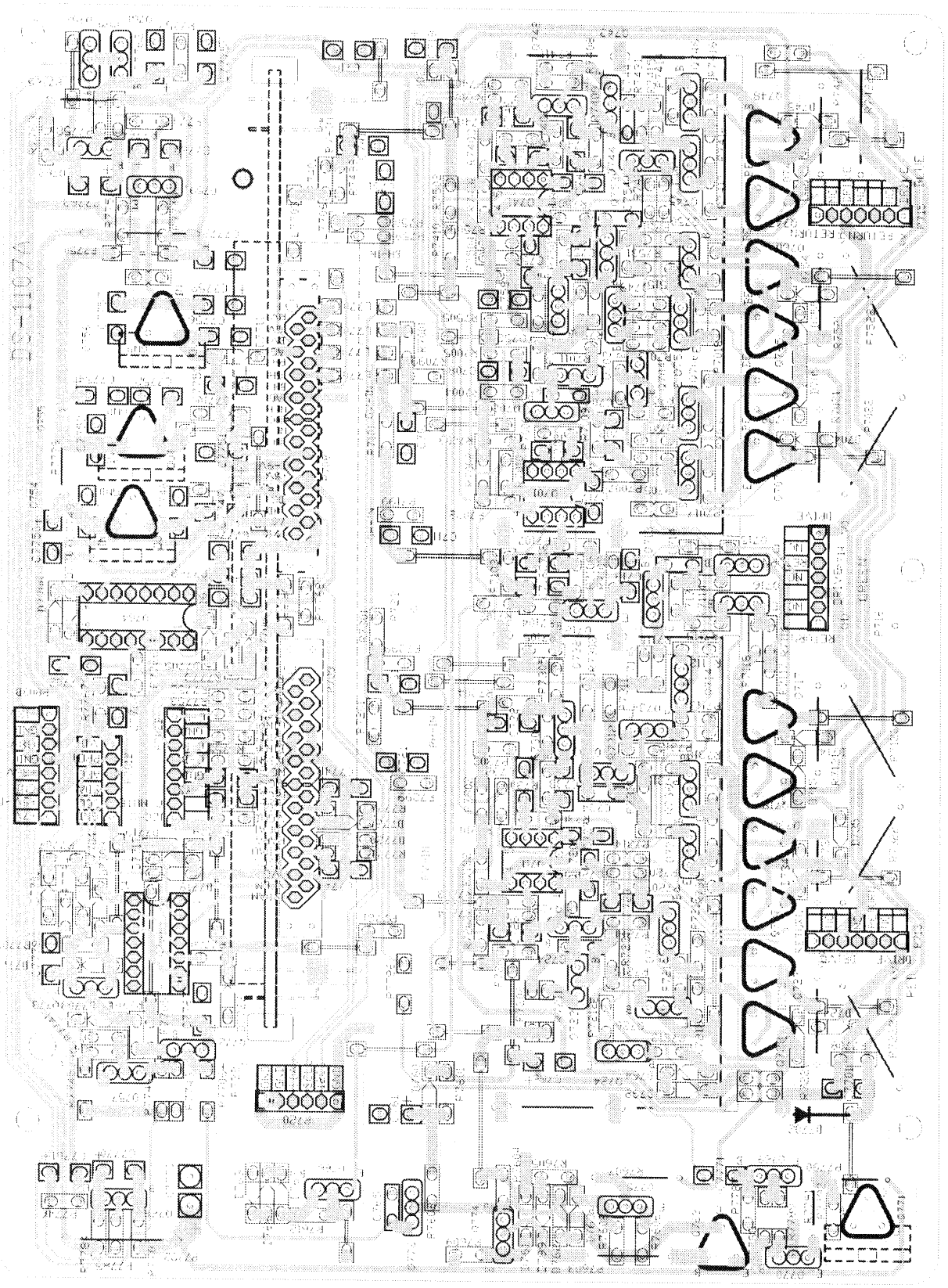
Location No.	Part No.	Description
Q750	A6314440	Transistor, 2SC1627-Y
Q751	A6531140	Transistor, 2SA817-Y
Q752	A6317440	Transistor, 2SC1815-Y
Q753	A6531140	Transistor, 2SA817-Y
Q754	23904521	IC, AN7805
Q754B	70391356	Screw, BITTB3X10 SZN
Q755	23904525	IC, AN7809
Q755B	70391356	Screw, BITTB3X10 SZN
Q756	23318841	IC, AN79M09F
Q756B	70391356	Screw, BITTB3X10 SZN
Q757	A6317440	Transistor, 2SC1815-Y
Q758	A6317440	Transistor, 2SC1815-Y
Q759	A6534040	Transistor, 2SA1015-Y
Q760	A6869040	Transistor, 2SD1407A-Y
Q760B	23035310	Screw, BTB3X10SZN
Q761	A6534040	Transistor, 2SA1015-Y
Q762	A6317440	Transistor, 2SC1815-Y
Q763	A6534145	Transistor, 2SA1020-Y(C)
Q764	B0487045	IC, TC74HC4049AP
Q765	A6640600	Transistor, 2SB1016A-Y
Q765B	23035310	Screw, BTB3X10SZN
Q766	A6317440	Transistor, 2SC1815-Y
Q767	B0470188	IC, TC4066BP(N)
Q768	A6534040	Transistor, 2SA1015-Y
Q769	A6317440	Transistor, 2SC1815-Y
Q770	A6534040	Transistor, 2SA1015-Y
Q771	A6533730	Transistor, 2SA1012-Y
Q771B	23035308	Screw, BTB3X8SZN
Q771C	23960136	Adhesive, TSE3843-W
Q772	A6534040	Transistor, 2SA1015-Y
Q773	A6317440	Transistor, 2SC1815-Y
Q774	A6317440	Transistor, 2SC1815-Y
Q775	A6531140	Transistor, 2SA817-Y
Q776	A6002020	Transistor, RN1202
D704	23115599	Diode, 1N4148
D705	23115599	Diode, 1N4148
D714	23115599	Diode, 1N4148
D715	23115599	Diode, 1N4148
D724	23115599	Diode, 1N4148
D725	23115599	Diode, 1N4148
D734	23115599	Diode, 1N4148
D735	23115599	Diode, 1N4148
D744	23115599	Diode, 1N4148
D745	23115599	Diode, 1N4148
D754	23115599	Diode, 1N4148
D755	23115599	Diode, 1N4148
D760	23115599	Diode, 1N4148
D761	23316666	Diode, Zener, MTZJ4.7B
D762	23316675	Diode, Zener, MTZJ6.2B
D763	23115599	Diode, 1N4148
D764	23115599	Diode, 1N4148
D767	23115599	Diode, 1N4148
D768	23316675	Diode, Zener, MTZJ6.2B
D769	23316675	Diode, Zener, MTZJ6.2B
D798	23115599	Diode, 1N4148
D799	23115599	Diode, 1N4148
D7701	23115599	Diode, 1N4148
D7702	23316766	Diode, RU2YX, LF-C1
D7703	23115599	Diode, 1N4148
D7705	23115599	Diode, 1N4148
D7706	23115599	Diode, 1N4148
D7707	23115599	Diode, 1N4148
D7708	23115599	Diode, 1N4148
D7709	23316675	Diode, Zener, MTZJ6.2B

Location No.	Part No.	Description
D7710	23316716	Diode, Zener, MTZJ11B
D7711	23316716	Diode, Zener, MTZJ11B
D7717	23316675	Diode, Zener, MTZJ6.2B
D7718	23316675	Diode, Zener, MTZJ6.2B
D7719	23316675	Diode, Zener, MTZJ6.2B
D7720	23316675	Diode, Zener, MTZJ6.2B
D7721	23316675	Diode, Zener, MTZJ6.2B
D7722	23316675	Diode, Zener, MTZJ6.2B
D7725	23115599	Diode, 1N4148
MISCELLANEOUS		
P708	23902863	Socket, 20P
P709	23902863	Socket, 20P
P713	23164787	Plug, 7P
P714	23164787	Plug, 7P
P715	23164787	Plug, 7P
P720	23164786	Plug, 6P
PC BOARD ASSEMBLIES		
* U909	23785664	Conver Board, PB9836A

Location No.	Part No.	Description

CONVER BOARD PB9836A

BOTTOM (FOIL) SIDE



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TOSHIBA

FILE NO. 033-200013
SUPPLEMENT

SERVICE MANUAL

COLOUR TELEVISION

C8SS, C9SS, C9PJ Chassis

43PJ93B, 43PJ93G, 50PJ98B, 50PJ98G, 61PJ98B, 61PJ98G, 40PW03B, 40PW03G, 43PJ03B, 43PJ03G

– SUMMARY –

This supplement covers revised version of replacement parts list and PC Board Bottom view and Circuit Diagram for above model.
Use this service manual together with the service manual as follows.

43PJ93B, 43PJ93G	(File No. 030-9904)
50PJ98B, 50PJ98G	(File No. 030-9915)
61PJ98B, 61PJ98G	(File No. 030-9924)
40PW03B, 40PW03G	(File No. 030-200001)
43PJ03B, 43PJ03G	(File No. 033-200006)

PRINTED IN JAPAN, Dec., 2000 Ⓣ

CHASSIS REPLACEMENT PARTS LIST

[CONVER OUT UNIT]

Location No.	Part No.	Description
CAPACITORS		
C701	24591471	PF, 470pF
C702	24591222	PF, 2200pF
C703	24591822	PF, 8200pF
C708	24591272	PF, 2700pF
C711	24591471	PF, 470pF
C712	24591222	PF, 2200pF
C713	24591822	PF, 8200pF
C716	24591472	PF, 4700pF
C717	24591103	PF, 0.01μF
C718	24591272	PF, 2700pF
C719	24667100	EL, 10μF, ±20%, 25V
C721	24591471	PF, 470pF
C722	24591222	PF, 2200pF
C723	24591822	PF, 8200pF
C728	24591272	PF, 2700pF
C731	24591471	PF, 470pF
C732	24591222	PF, 2200pF
C733	24591822	PF, 8200pF
C737	24591103	PF, 0.01μF
C738	24591272	PF, 2700pF
C741	24591471	PF, 470pF
C742	24591222	PF, 2200pF
C743	24591822	PF, 8200pF
C747	24591103	PF, 0.01μF
C748	24591272	PF, 2700pF
C751	24591471	PF, 470pF
C752	24591222	PF, 2200pF
C753	24591822	PF, 8200pF
C758	24591272	PF, 2700pF
C761	24666331	EL, 330μF, ±20%, 16V
C765	24232103	CD, 0.01μF, +80%, -20%
C766	24669221	EL, 220μF, ±20%, 50V
C7703	24232103	CD, 0.01μF, +80%, -20%
C7742	24436330	CD, 33pF
C7743	24436330	CD, 33pF
C7747	24667101	EL, 100μF, ±20%, 25V
C7748	24567104	PF, 0.1μF
C7749	24567104	PF, 0.1μF
C7750	24667101	EL, 100μF, ±20%, 25V
C7751	24667101	EL, 100μF, ±20%, 25V
C7752	24567104	PF, 0.1μF
C7753	24567104	PF, 0.1μF
C7754	24667101	EL, 100μF, ±20%, 25V
C7755	24667101	EL, 100μF, ±20%, 25V
C7756	24567104	PF, 0.1μF
C7757	24567104	PF, 0.1μF
C7758	24667101	EL, 100μF, ±20%, 25V
C7760	24667470	EL, 47μF, ±20%, 25V
C7761	24667470	EL, 47μF, ±20%, 25V
C7762	24669100	EL, 10μF, ±20%, 50V
C7763	24667470	EL, 47μF, ±20%, 25V
C7764	24598331	PF, 330pF
C7767	24667470	EL, 47μF, ±20%, 25V
C7768	24567104	PF, 0.1μF
C7769	24232103	CD, 0.01μF, +80%, -20%
C7770	24669470	EL, 47μF, ±20%, 50V
C7771	24567103	PF, 0.01μF
C7772	24667101	EL, 100μF, ±20%, 25V
C7773	24669221	EL, 220μF, ±20%, 50V

Location No.	Part No.	Description
C7774	24436331	CD, 330pF
C7775	24667101	EL, 100μF, ±20%, 25V
C7776	24667470	EL, 47μF, ±20%, 25V
C7779	24669479	EL, 4.7μF, ±20%, 50V
RESISTORS		
R7001	24366470	CF, 47 ohm
R7002	24366823	CF, 82k ohm
R7003	24366472	CF, 4700 ohm
R7004	24366103	CF, 10k ohm
R7005	24366473	CF, 47k ohm
R7006	24366104	CF, 100k ohm
R7007	24366333	CF, 33k ohm
R7008	24366471	CF, 470 ohm
R7009	24366471	CF, 470 ohm
R7010	24366222	CF, 2200 ohm
R7011	24366151	CF, 150 ohm
R7012	24366151	CF, 150 ohm
R7013	24366470	CF, 47 ohm
R7014	24366471	CF, 470 ohm
R7015	24366471	CF, 470 ohm
R7016	24366101	CF, 100 ohm
R7017	24366101	CF, 100 ohm
R7018	24366101	CF, 100 ohm
R7021	24554151	OMF, 150 ohm, 2W
R7022	24323189	MF, 1.8 ohm, 2W
R7031	24366391	CF, 390 ohm
R7032	24366222	CF, 2200 ohm
R7099	24366152	CF, 1500 ohm
R7101	24366470	CF, 47 ohm
R7102	24366823	CF, 82k ohm
R7103	24366472	CF, 4700 ohm
R7104	24366103	CF, 10k ohm
R7105	24366473	CF, 47k ohm
R7106	24366104	CF, 100k ohm
R7107	24366333	CF, 33k ohm
R7108	24366471	CF, 470 ohm
R7109	24366471	CF, 470 ohm
R7111	24366151	CF, 150 ohm
R7112	24000151	MF, 750 ohm, 1/4W
R7113	24366470	CF, 47 ohm
R7114	24366471	CF, 470 ohm
R7115	24366471	CF, 470 ohm
R7116	24366101	CF, 100 ohm
R7117	24366101	CF, 100 ohm
R7118	24366101	CF, 100 ohm
R7121	24554151	OMF, 150 ohm, 2W
R7122	24323189	MF, 1.8 ohm, 2W
R7131	24366391	CF, 390 ohm
R7132	24366222	CF, 2200 ohm
R7199	24366152	CF, 1500 ohm
R7201	24366470	CF, 47 ohm
R7202	24366823	CF, 82k ohm
R7203	24366472	CF, 4700 ohm
R7204	24366103	CF, 10k ohm
R7205	24366473	CF, 47k ohm
R7206	24366104	CF, 100k ohm
R7207	24366333	CF, 33k ohm
R7208	24366471	CF, 470 ohm
R7209	24366471	CF, 470 ohm

Location No.	Part No.	Description
R7210	24366222	CF, 2200 ohm
R7211	24366151	CF, 150 ohm
R7212	24366151	CF, 150 ohm
R7213	24366470	CF, 47 ohm
R7214	24366471	CF, 470 ohm
R7215	24366471	CF, 470 ohm
R7216	24366101	CF, 100 ohm
R7217	24366101	CF, 100 ohm
R7218	24366101	CF, 100 ohm
R7221	24554151	OMF, 150 ohm, 2W
R7222	24323189	MF, 1.8 ohm, 2W
R7231	24366391	CF, 390 ohm
R7299	24366152	CF, 1500 ohm
R7301	24366470	CF, 47 ohm
R7302	24366823	CF, 82k ohm
R7303	24366472	CF, 4700 ohm
R7304	24366103	CF, 10k ohm
R7305	24366473	CF, 47k ohm
R7306	24366104	CF, 100k ohm
R7307	24366333	CF, 33k ohm
R7308	24366471	CF, 470 ohm
R7309	24366471	CF, 470 ohm
R7311	24366151	CF, 150 ohm
R7312	24366151	CF, 150 ohm
R7313	24366470	CF, 47 ohm
R7314	24366471	CF, 470 ohm
R7315	24366471	CF, 470 ohm
R7316	24366101	CF, 100 ohm
R7317	24366101	CF, 100 ohm
R7318	24366101	CF, 100 ohm
R7321	24554151	OMF, 150 ohm, 2W
R7322	24323189	MF, 1.8 ohm, 2W
R7331	24366391	CF, 390 ohm
R7399	24366152	CF, 1500 ohm
R7401	24366470	CF, 47 ohm
R7402	24366823	CF, 82k ohm
R7403	24366472	CF, 4700 ohm
R7404	24366103	CF, 10k ohm
R7405	24366473	CF, 47k ohm
R7406	24366104	CF, 100k ohm
R7407	24366333	CF, 33k ohm
R7408	24366471	CF, 470 ohm
R7409	24366471	CF, 470 ohm
R7410	24366222	CF, 2200 ohm
R7411	24366151	CF, 150 ohm
R7412	24366151	CF, 150 ohm
R7413	24366470	CF, 47 ohm
R7414	24366471	CF, 470 ohm
R7415	24366471	CF, 470 ohm
R7416	24366101	CF, 100 ohm
R7417	24366101	CF, 100 ohm
R7418	24366101	CF, 100 ohm
R7421	24554151	OMF, 150 ohm, 2W
R7422	24323189	MF, 1.8 ohm, 2W
R7431	24366391	CF, 390 ohm
R7432	24366222	CF, 2200 ohm
R7499	24366152	CF, 1500 ohm
R7501	24366470	CF, 47 ohm
R7502	24366823	CF, 82k ohm
R7503	24366472	CF, 4700 ohm
R7504	24366103	CF, 10k ohm
R7505	24366473	CF, 47k ohm
R7506	24366104	CF, 100k ohm
R7507	24366333	CF, 33k ohm

Location No.	Part No.	Description
R7508	24366471	CF, 470 ohm
R7509	24366471	CF, 470 ohm
R7511	24366151	CF, 150 ohm
R7512	24366151	CF, 150 ohm
R7513	24366470	CF, 47 ohm
R7514	24366471	CF, 470 ohm
R7515	24366471	CF, 470 ohm
R7516	24366101	CF, 100 ohm
R7517	24366101	CF, 100 ohm
R7518	24366101	CF, 100 ohm
R7521	24554151	OMF, 150 ohm, 2W
R7522	24323189	MF, 1.8 ohm, 2W
R7531	24366391	CF, 390 ohm
R7599	24366152	CF, 1500 ohm
R7601	24366222	CF, 2200 ohm
R7602	24366222	CF, 2200 ohm
R7603	24381472	OMF, 4700 ohm, 1/2W
R7604	24366104	CF, 100k ohm
R7605	24366472	CF, 4700 ohm
R7606	24366102	CF, 1k ohm
R7607	24381472	OMF, 4700 ohm, 1/2W
R7608	24366223	CF, 22k ohm
R7609	24366153	CF, 15k ohm
R7612	24366223	CF, 22k ohm
R7703	24366473	CF, 47k ohm
R7704	24366103	CF, 10k ohm
R7705	24366472	CF, 4700 ohm
R7706	24366222	CF, 2200 ohm
R7708	24366471	CF, 470 ohm
R7738	24554101	OMF, 100 ohm, 2W
R7741	24366471	CF, 470 ohm
R7742	24366222	CF, 2200 ohm
R7743	24366223	CF, 22k ohm
R7744	24366102	CF, 1k ohm
R7745	24366222	CF, 2200 ohm
R7746	24366223	CF, 22k ohm
R7747	24366222	CF, 2200 ohm
R7749	24366331	CF, 330 ohm
R7750	24323278	MF, 0.27 ohm, 2W
R7751	24366471	CF, 470 ohm
R7752	24366101	CF, 100 ohm
R7753	24366101	CF, 100 ohm
R7754	24366101	CF, 100 ohm
R7755	24366102	CF, 1k ohm
R7757	24366223	CF, 22k ohm
R7758	24366222	CF, 2200 ohm
R7763	24366471	CF, 470 ohm
R7764	24366331	CF, 330 ohm
R7765	24339398	MF, 0.39 ohm, 2W
R7766	24366223	CF, 22k ohm
R7767	24366223	CF, 22k ohm
R7768	24366102	CF, 1k ohm
R7771	24366102	CF, 1k ohm
R7772	24366102	CF, 1k ohm
R7779	24366102	CF, 1k ohm
R7780	24366102	CF, 1k ohm
R7781	24366333	CF, 33k ohm
R7782	24339828	MF, 0.82 ohm, 2W
R7783	24366331	CF, 330 ohm
R7784	24366471	CF, 470 ohm
R7785	24366222	CF, 2200 ohm
R7786	24366103	CF, 10k ohm
R7787	24366104	CF, 100k ohm
R7788	24366103	CF, 10k ohm

Location No.	Part No.	Description
R7789	24366471	CF, 470 ohm
R7790	24552182	OMF, 1800 ohm, 1/2W
R7791	24552681	OMF, 680 ohm, 1/2W
R7792	24366471	CF, 470 ohm
R7794	24366223	CF, 22k ohm
COILS & TRANSFORMERS		
L7701	23103859	Coil (Ferrite Bead), TEM2011
L7702	23103859	Coil (Ferrite Bead), TEM2011
L7703	23103859	Coil (Ferrite Bead), TEM2011
L7704	23103859	Coil (Ferrite Bead), TEM2011
L7705	23103859	Coil (Ferrite Bead), TEM2011
L7706	23103859	Coil (Ferrite Bead), TEM2011
SEMICONDUCTORS		
Q701	23319808	IC, M5218AP
Q702	A6317440	Transistor, 2SC1815-Y
Q703	A6531140	Transistor, 2SA817-Y
Q704	A6314440	Transistor, 2SC1627-Y
Q705	A6314440	Transistor, 2SC1627-Y
Q706	A6531140	Transistor, 2SA817-Y
Q707	A6869040	Transistor, 2SD1407A-Y
Q707B	23035310	Screw, BTB3X10SZN
Q708	A6640600	Transistor, 2SB1016A-Y
Q708B	23035310	Screw, BTB3X10SZN
Q711	23319808	IC, M5218AP
Q712	A6317440	Transistor, 2SC1815-Y
Q713	A6531140	Transistor, 2SA817-Y
Q714	A6314440	Transistor, 2SC1627-Y
Q715	A6314440	Transistor, 2SC1627-Y
Q716	A6531140	Transistor, 2SA817-Y
Q717	A6869040	Transistor, 2SD1407A-Y
Q717B	23035310	Screw, BTB3X10SZN
Q718	A6640600	Transistor, 2SB1016A-Y
Q718B	23035310	Screw, BTB3X10SZN
Q722	A6317440	Transistor, 2SC1815-Y
Q723	A6531140	Transistor, 2SA817-Y
Q724	A6314440	Transistor, 2SC1627-Y
Q725	A6314440	Transistor, 2SC1627-Y
Q726	A6531140	Transistor, 2SA817-Y
Q727	A6869040	Transistor, 2SD1407A-Y
Q727B	23035310	Screw, BTB3X10SZN
Q728	A6640600	Transistor, 2SB1016A-Y
Q728B	23035310	Screw, BTB3X10SZN
Q732	A6317440	Transistor, 2SC1815-Y
Q733	A6531140	Transistor, 2SA817-Y
Q734	A6314440	Transistor, 2SC1627-Y
Q735	A6314440	Transistor, 2SC1627-Y
Q736	A6531140	Transistor, 2SA817-Y
Q737	A6869040	Transistor, 2SD1407A-Y
Q737B	23035310	Screw, BTB3X10SZN
Q738	A6640600	Transistor, 2SB1016A-Y
Q738B	23035310	Screw, BTB3X10SZN
Q741	23319808	IC, M5218AP
Q742	A6317440	Transistor, 2SC1815-Y
Q743	A6531140	Transistor, 2SA817-Y
Q744	A6314440	Transistor, 2SC1627-Y
Q745	A6314440	Transistor, 2SC1627-Y
Q746	A6531140	Transistor, 2SA817-Y
Q747	A6869040	Transistor, 2SD1407A-Y
Q747B	23035310	Screw, BTB3X10SZN
Q748	A6640600	Transistor, 2SB1016A-Y
Q748B	23035310	Screw, BTB3X10SZN
Q749	A6314440	Transistor, 2SC1627-Y

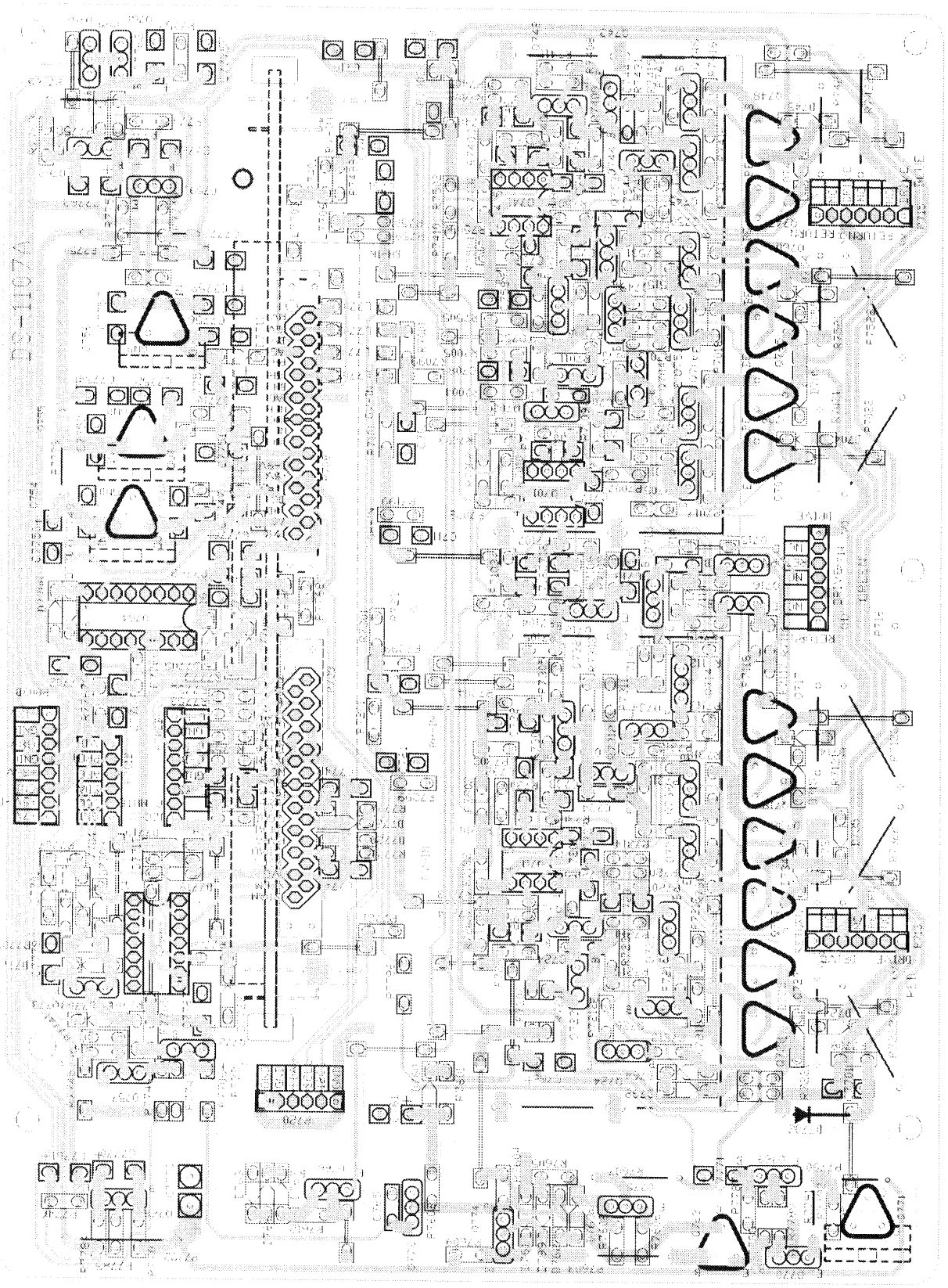
Location No.	Part No.	Description
Q750	A6314440	Transistor, 2SC1627-Y
Q751	A6531140	Transistor, 2SA817-Y
Q752	A6317440	Transistor, 2SC1815-Y
Q753	A6531140	Transistor, 2SA817-Y
Q754	23904521	IC, AN7805
Q754B	70391356	Screw, BITTB3X10 SZN
Q755	23904525	IC, AN7809
Q755B	70391356	Screw, BITTB3X10 SZN
Q756	23318841	IC, AN79M09F
Q756B	70391356	Screw, BITTB3X10 SZN
Q757	A6317440	Transistor, 2SC1815-Y
Q758	A6317440	Transistor, 2SC1815-Y
Q759	A6534040	Transistor, 2SA1015-Y
Q760	A6869040	Transistor, 2SD1407A-Y
Q760B	23035310	Screw, BTB3X10SZN
Q761	A6534040	Transistor, 2SA1015-Y
Q762	A6317440	Transistor, 2SC1815-Y
Q763	A6534145	Transistor, 2SA1020-Y(C)
Q764	B0487045	IC, TC74HC4049AP
Q765	A6640600	Transistor, 2SB1016A-Y
Q765B	23035310	Screw, BTB3X10SZN
Q766	A6317440	Transistor, 2SC1815-Y
Q767	B0470188	IC, TC4066BP(N)
Q768	A6534040	Transistor, 2SA1015-Y
Q769	A6317440	Transistor, 2SC1815-Y
Q770	A6534040	Transistor, 2SA1015-Y
Q771	A6533730	Transistor, 2SA1012-Y
Q771B	23035308	Screw, BTB3X8SZN
Q771C	23960136	Adhesive, TSE3843-W
Q772	A6534040	Transistor, 2SA1015-Y
Q773	A6317440	Transistor, 2SC1815-Y
Q774	A6317440	Transistor, 2SC1815-Y
Q775	A6531140	Transistor, 2SA817-Y
Q776	A6002020	Transistor, RN1202
D704	23115599	Diode, 1N4148
D705	23115599	Diode, 1N4148
D714	23115599	Diode, 1N4148
D715	23115599	Diode, 1N4148
D724	23115599	Diode, 1N4148
D725	23115599	Diode, 1N4148
D734	23115599	Diode, 1N4148
D735	23115599	Diode, 1N4148
D744	23115599	Diode, 1N4148
D745	23115599	Diode, 1N4148
D754	23115599	Diode, 1N4148
D755	23115599	Diode, 1N4148
D760	23115599	Diode, 1N4148
D761	23316666	Diode, Zener, MTZJ4.7B
D762	23316675	Diode, Zener, MTZJ6.2B
D763	23115599	Diode, 1N4148
D764	23115599	Diode, 1N4148
D767	23115599	Diode, 1N4148
D768	23316675	Diode, Zener, MTZJ6.2B
D769	23316675	Diode, Zener, MTZJ6.2B
D798	23115599	Diode, 1N4148
D799	23115599	Diode, 1N4148
D7701	23115599	Diode, 1N4148
D7702	23316766	Diode, RU2YX, LF-C1
D7703	23115599	Diode, 1N4148
D7705	23115599	Diode, 1N4148
D7706	23115599	Diode, 1N4148
D7707	23115599	Diode, 1N4148
D7708	23115599	Diode, 1N4148
D7709	23316675	Diode, Zener, MTZJ6.2B

Location No.	Part No.	Description
D7710	23316716	Diode, Zener, MTZJ11B
D7711	23316716	Diode, Zener, MTZJ11B
D7717	23316675	Diode, Zener, MTZJ6.2B
D7718	23316675	Diode, Zener, MTZJ6.2B
D7719	23316675	Diode, Zener, MTZJ6.2B
D7720	23316675	Diode, Zener, MTZJ6.2B
D7721	23316675	Diode, Zener, MTZJ6.2B
D7722	23316675	Diode, Zener, MTZJ6.2B
D7725	23115599	Diode, 1N4148
MISCELLANEOUS		
P708	23902863	Socket, 20P
P709	23902863	Socket, 20P
P713	23164787	Plug, 7P
P714	23164787	Plug, 7P
P715	23164787	Plug, 7P
P720	23164786	Plug, 6P
PC BOARD ASSEMBLIES		
* U909	23785664	Conver Board, PB9836A

Location No.	Part No.	Description

CONVER BOARD PB9836A

BOTTOM (FOIL) SIDE



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